

RANKL(days)

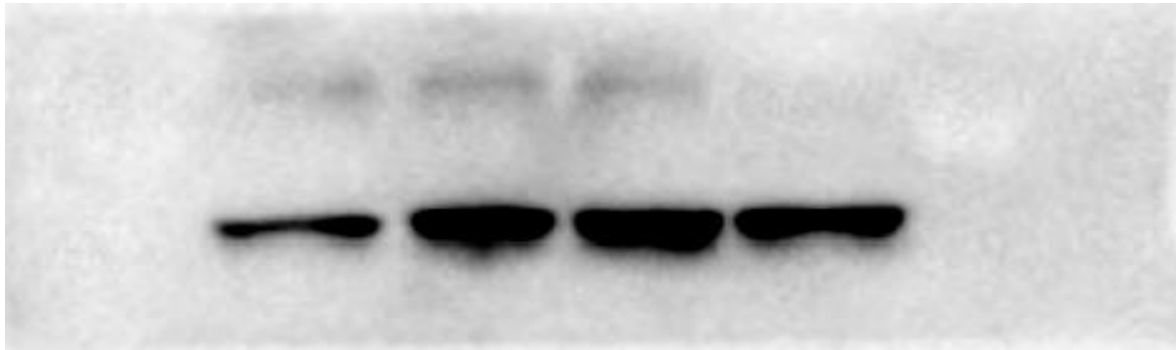
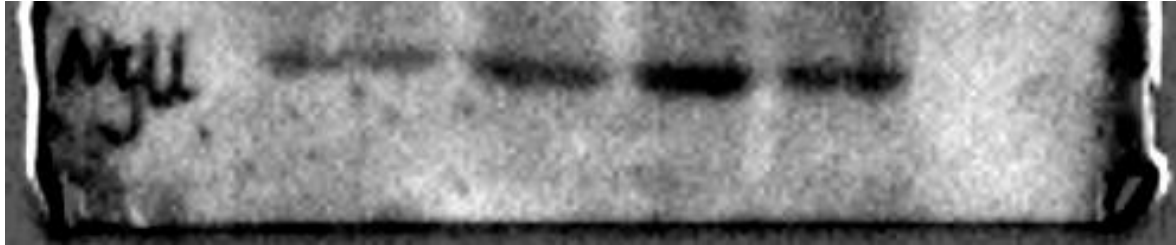
0

1

3

5

MAGL



RANKL(days)

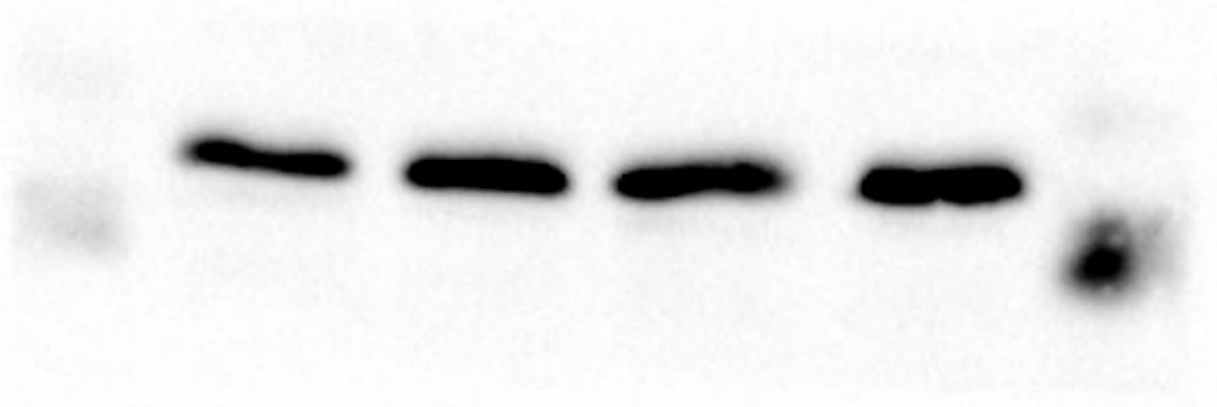
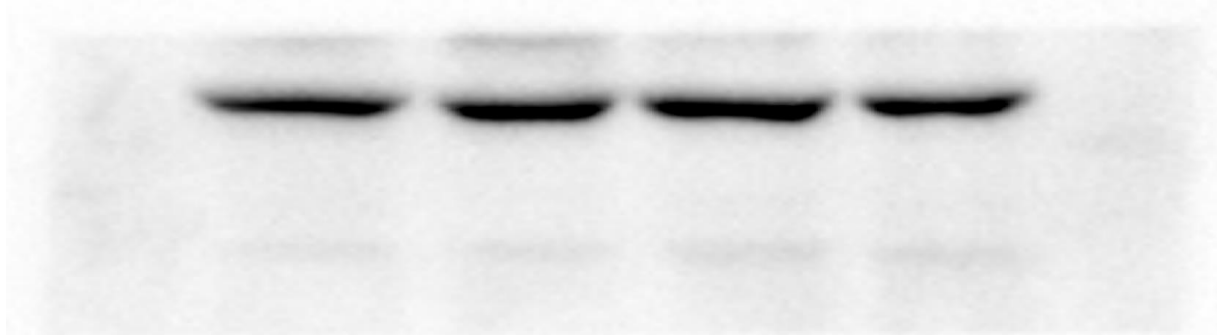
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TRAP



RANKL(days)

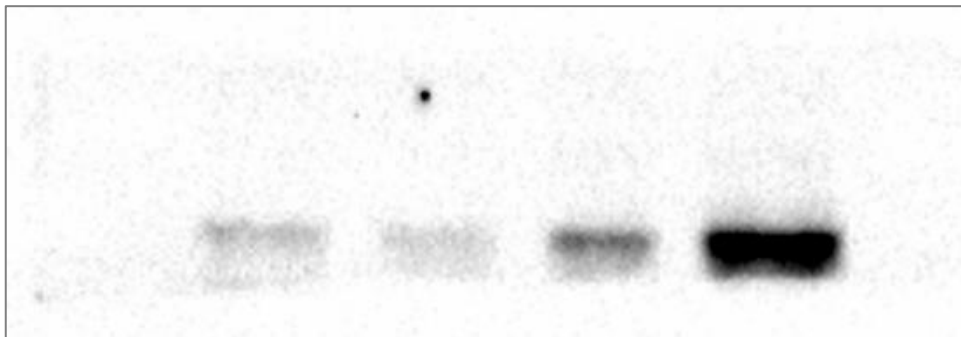
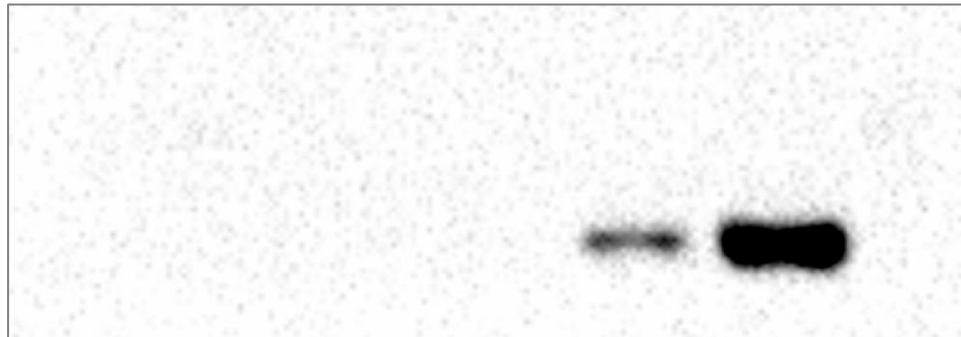
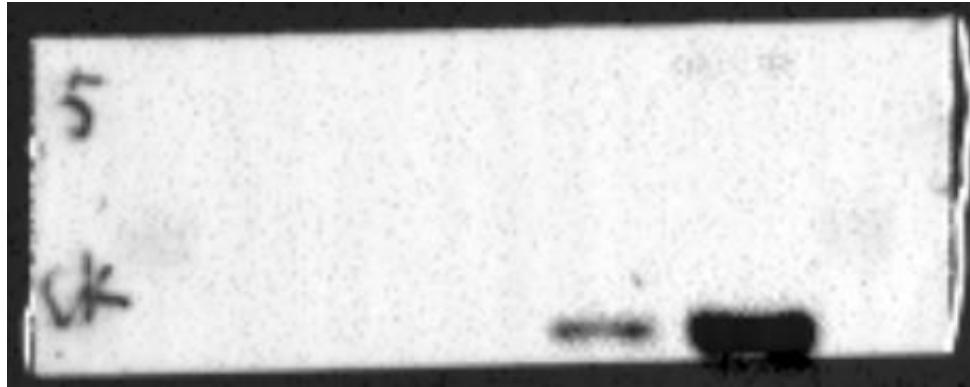
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CTSK



RANKL(days)

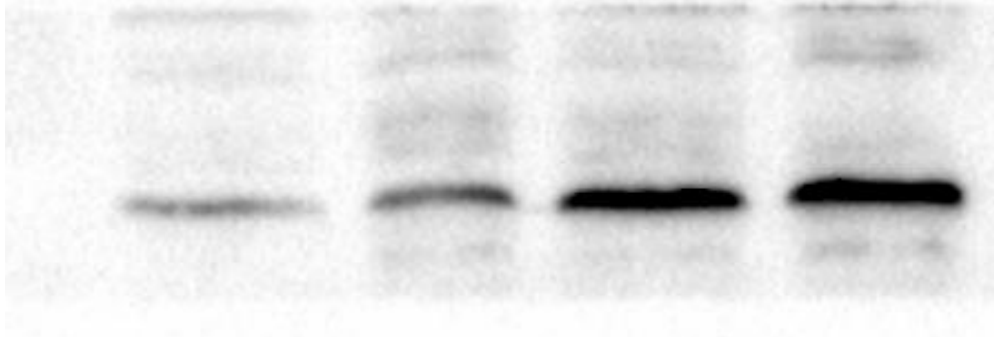
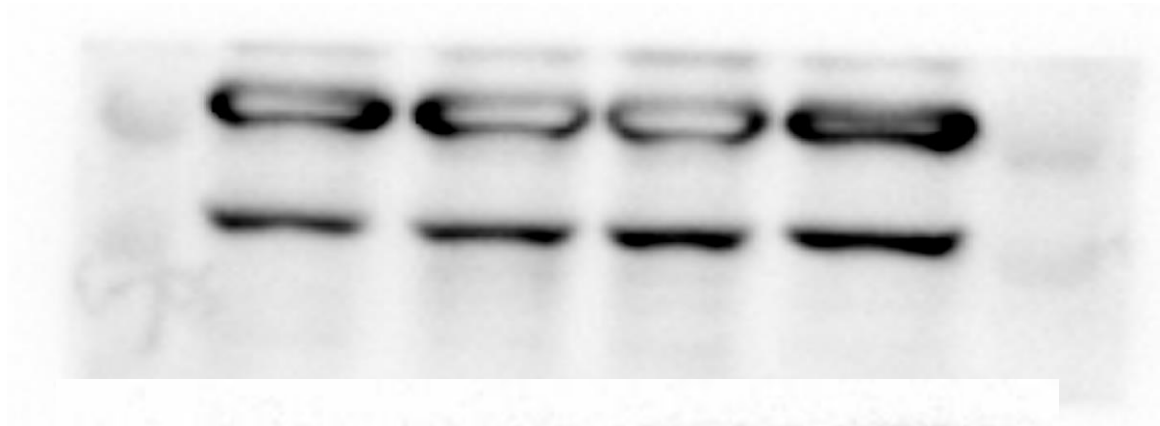
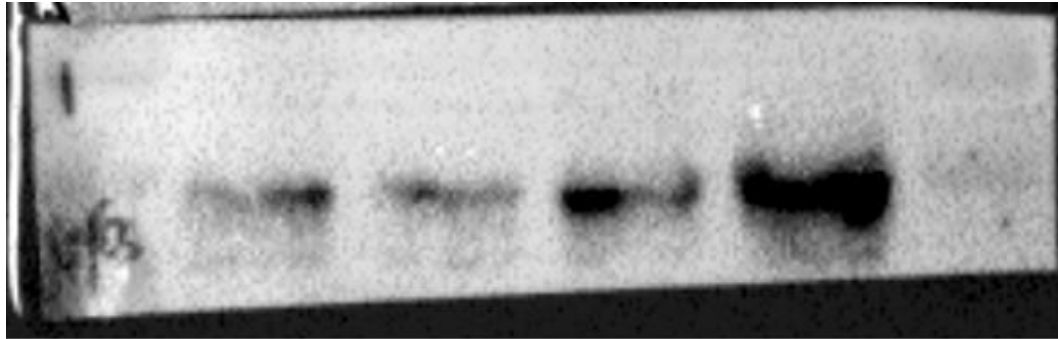
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c-FOS



RANKL(days)

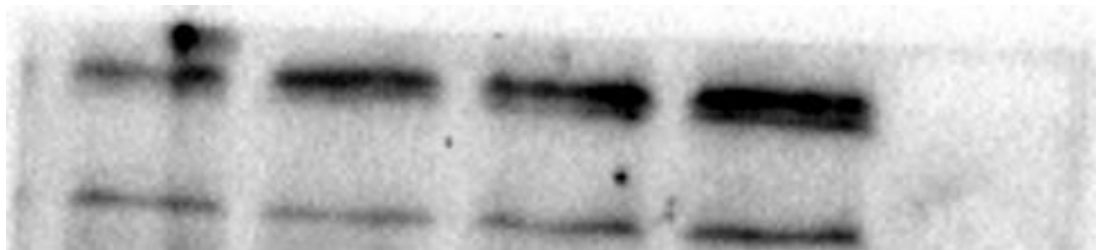
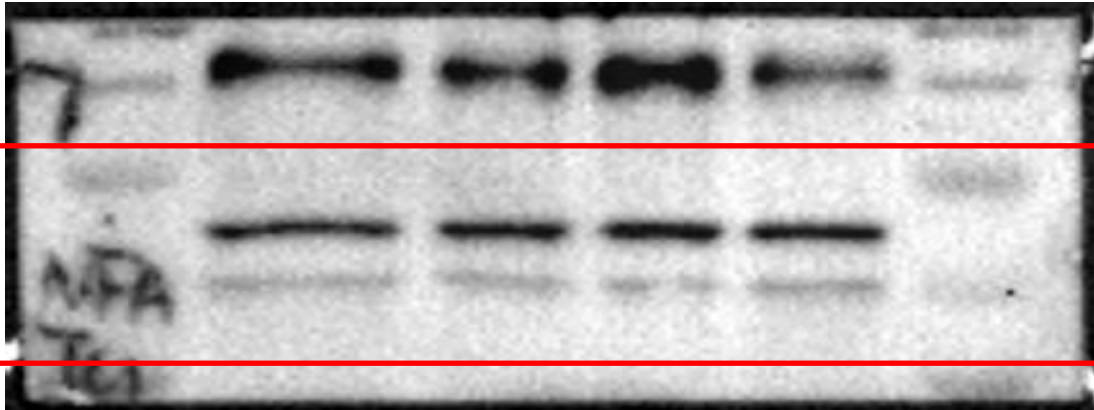
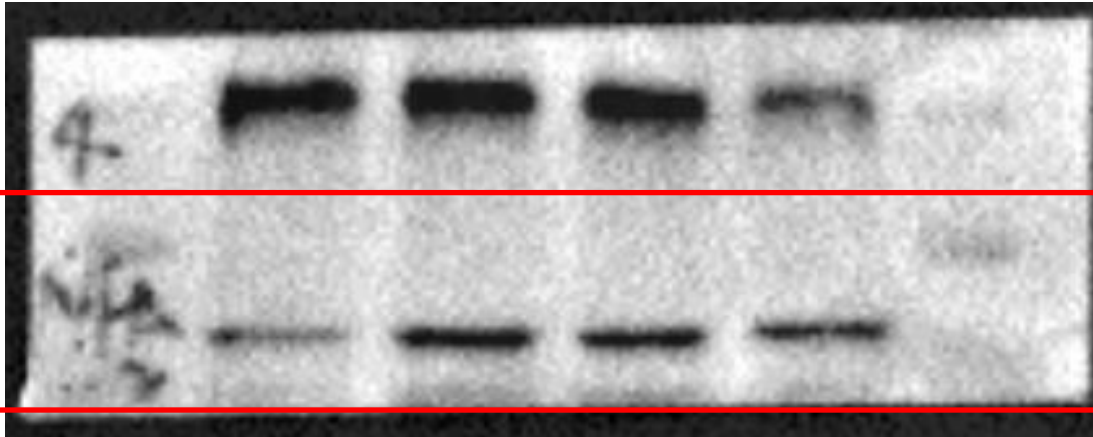
0

1

3

5

NFATc-1



RANKL(days)

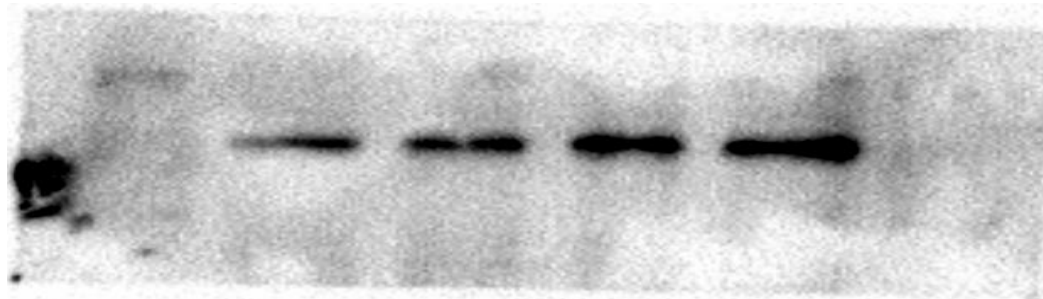
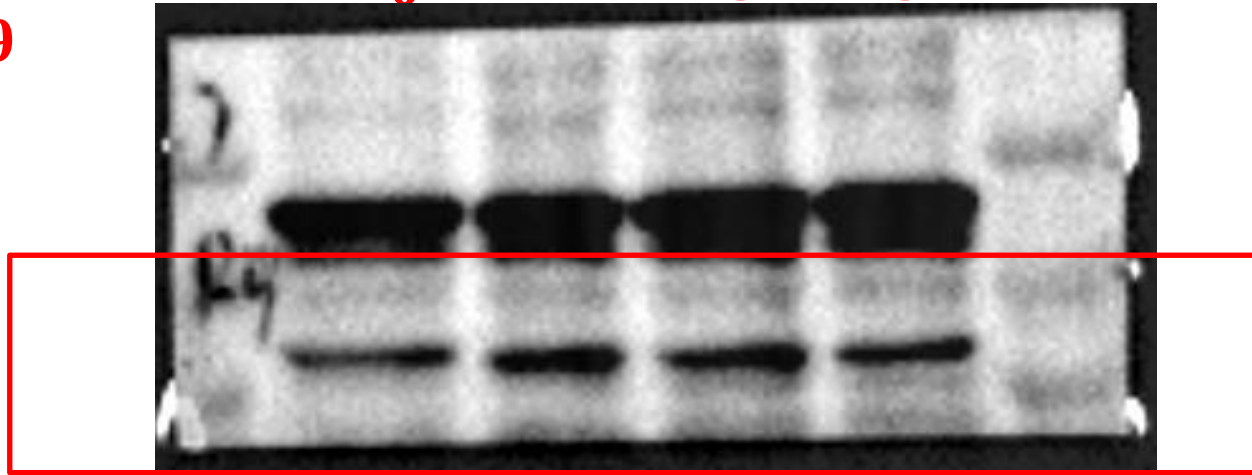
0

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MMP-9



RANKL

Sh-CON

Sh-MAGL

Sh-CON

Sh-MAGL

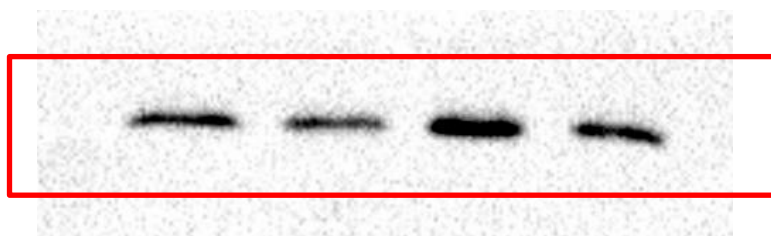
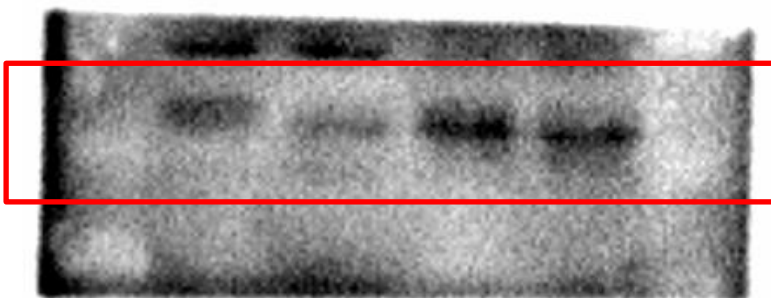
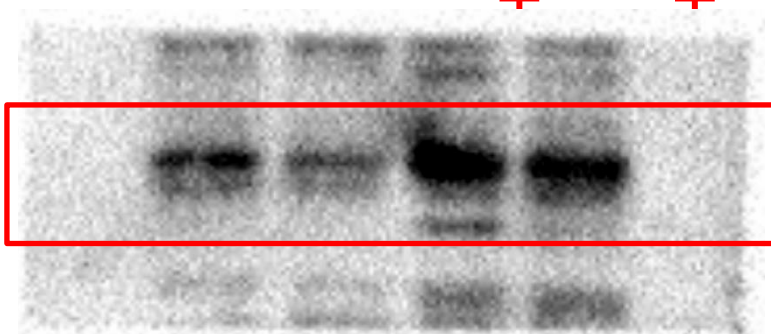
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MAGL



RANKL

Sh-CON

Sh-MAGL

Sh-CON

Sh-MAGL

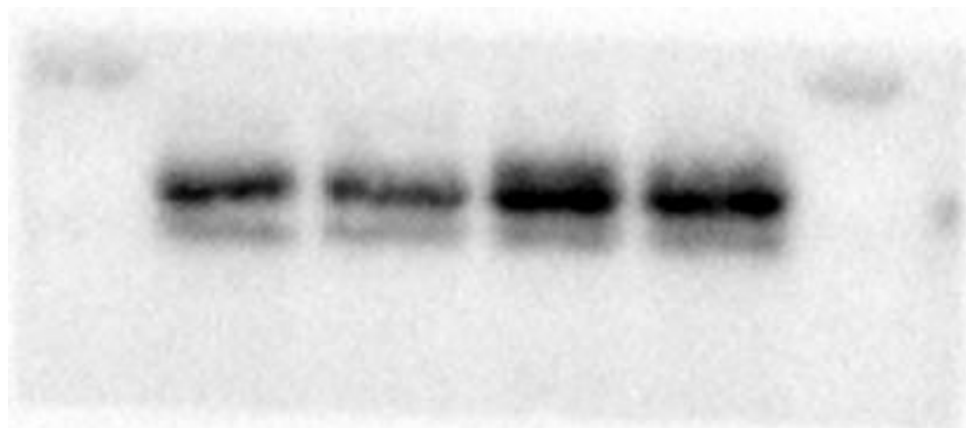
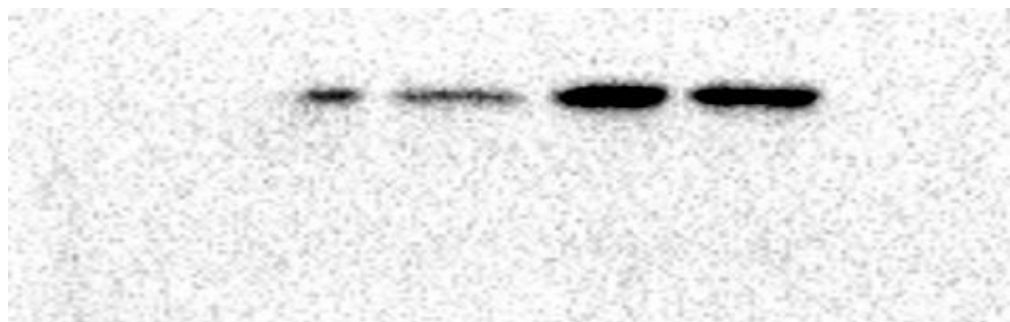
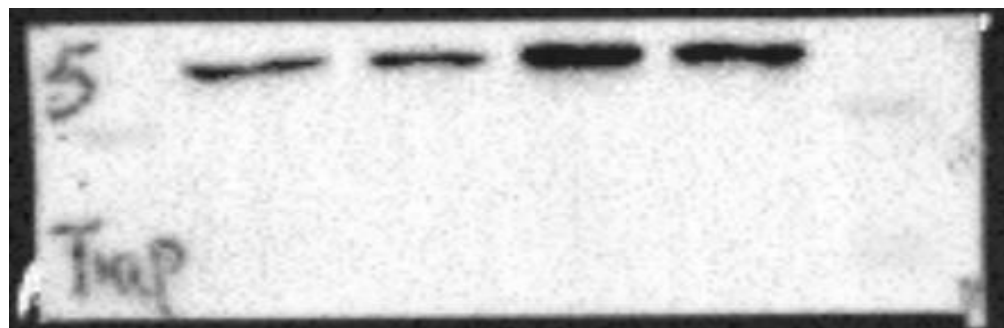
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TRAP



RANKL

Sh-CON

Sh-MAGL

Sh-CON

Sh-MAGL

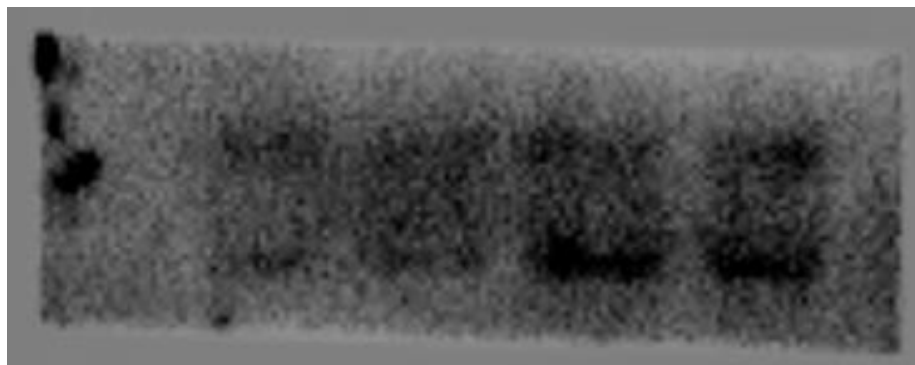
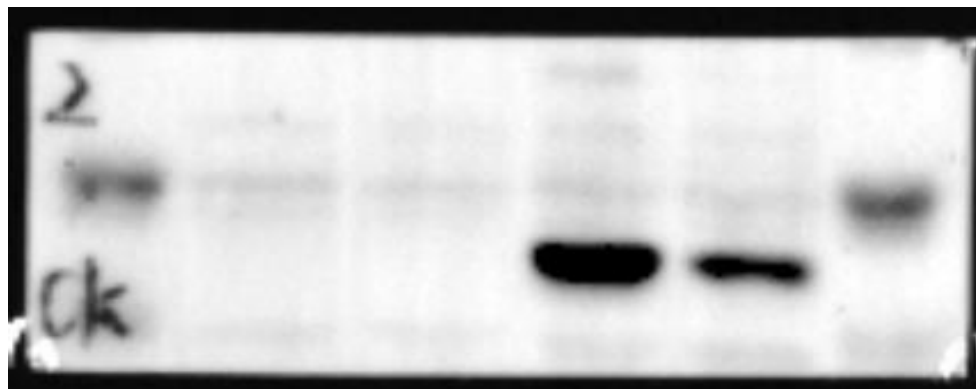
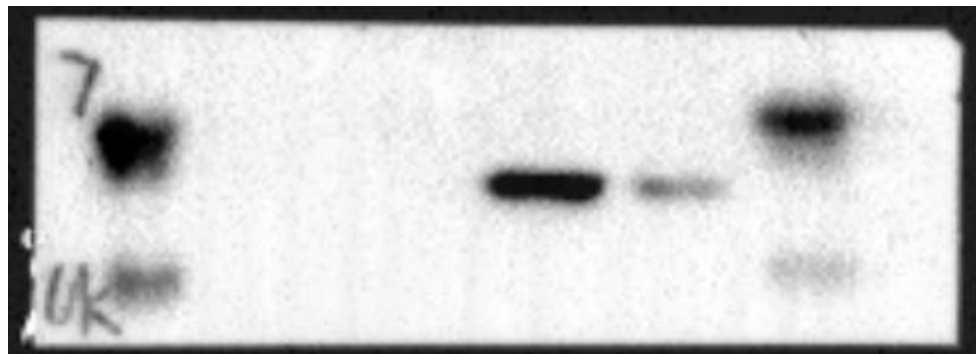
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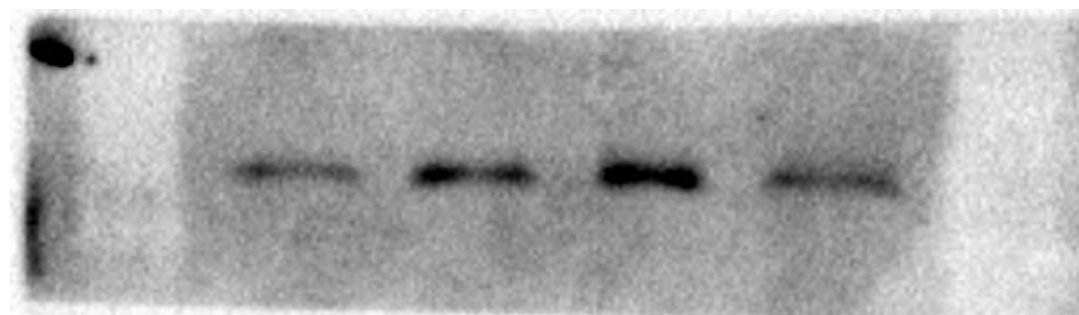
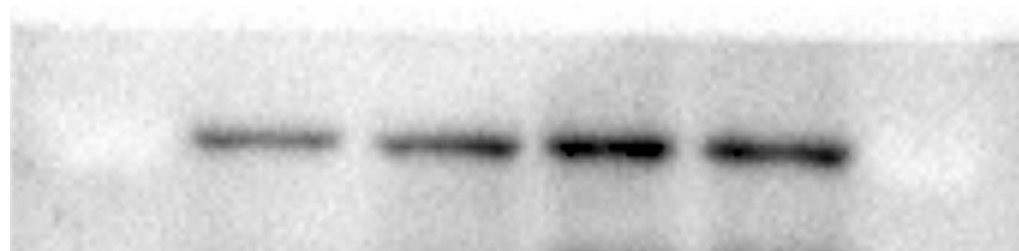
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CTSK



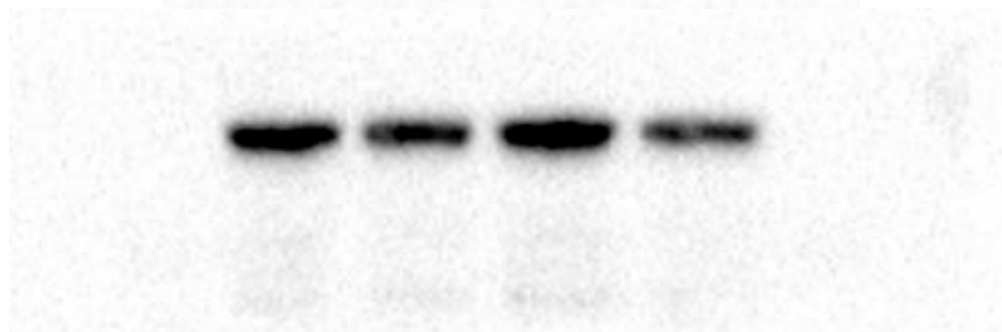
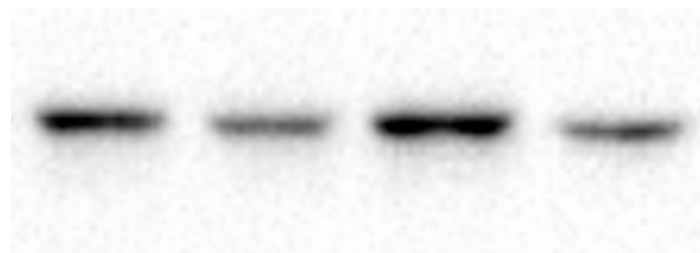
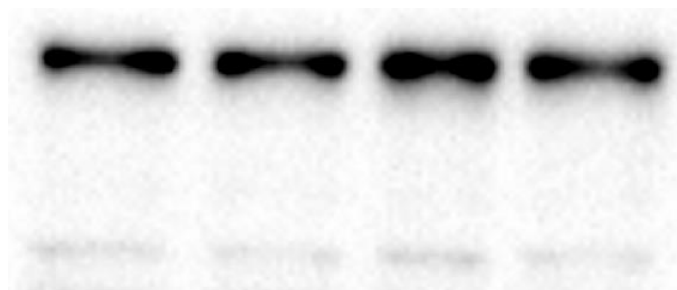
RANKL

Sh-CON **Sh-MAGL** **Sh-CON** **Sh-MAGL**
- - + +



RANKL

Sh-CON **Sh-MAGL** **Sh-CON** **Sh-MAGL**
- - + +



NFATc-1

RANKL(75ng/ml)

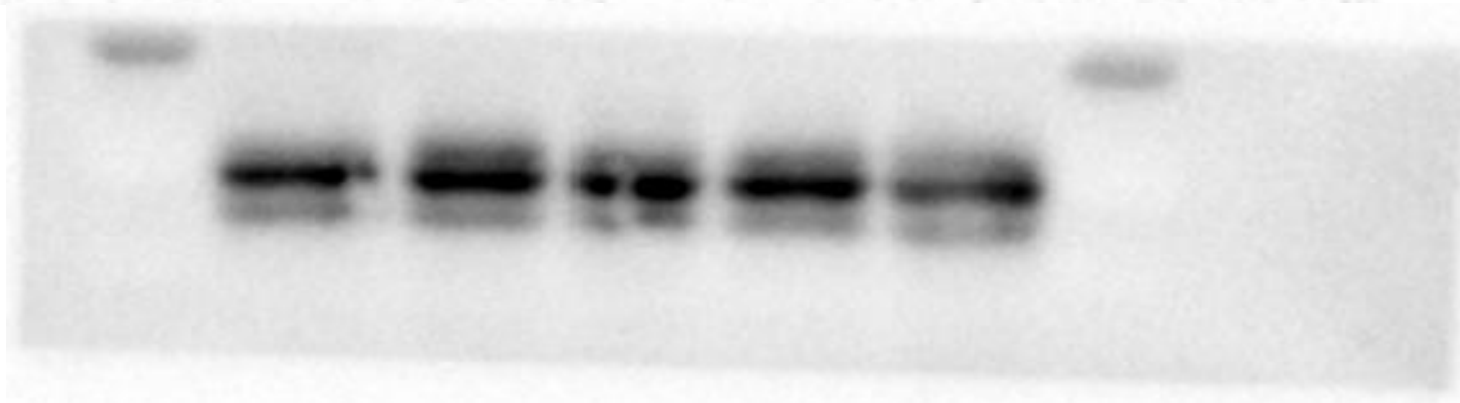
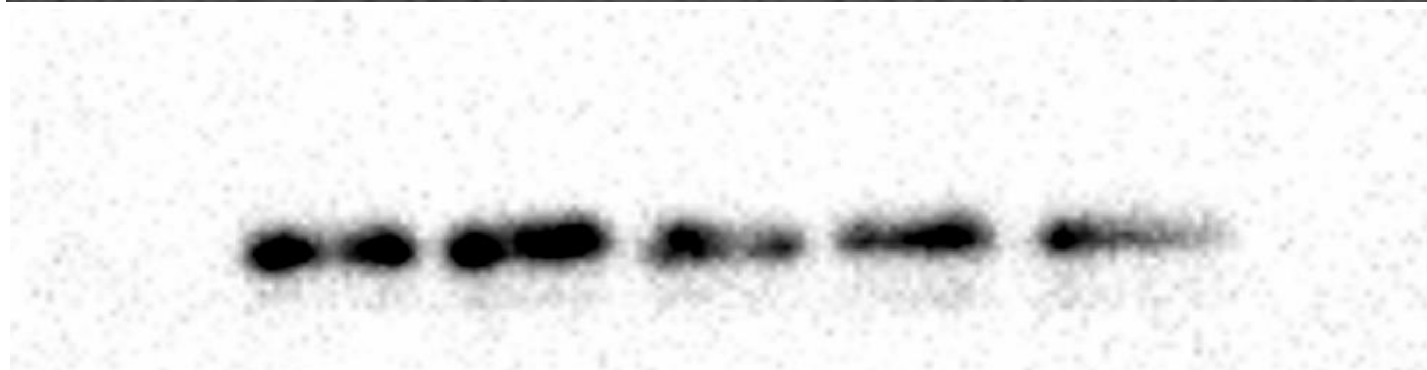
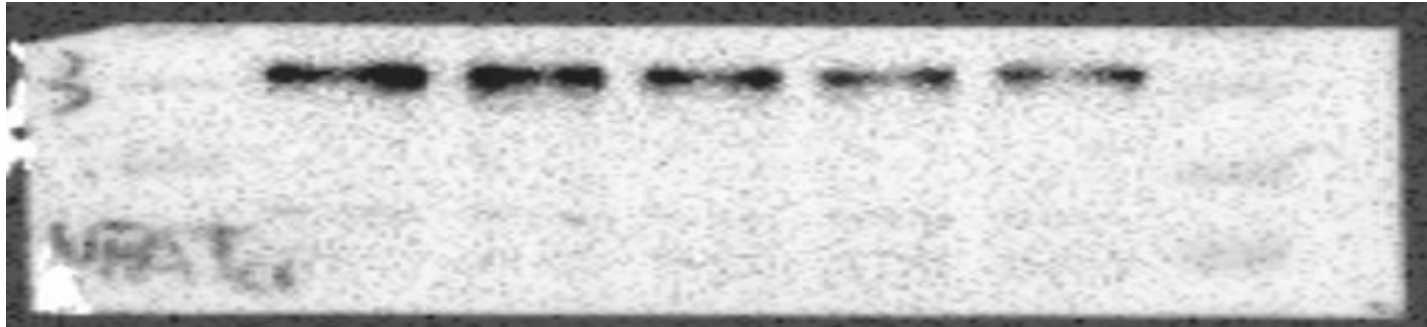
JZL(μ M)

4

10

20

NFTAc1



RANKL(75ng/ml)

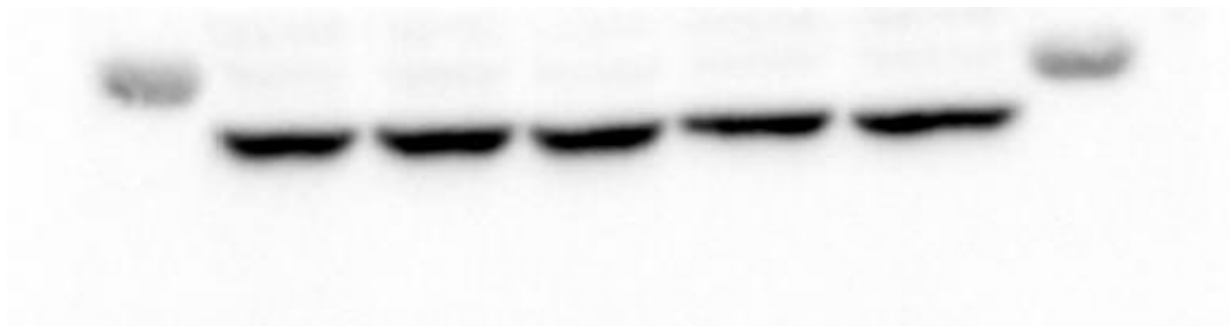
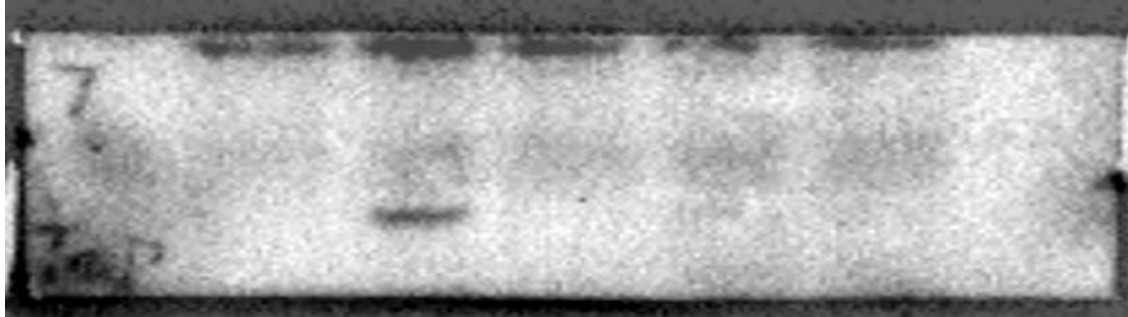
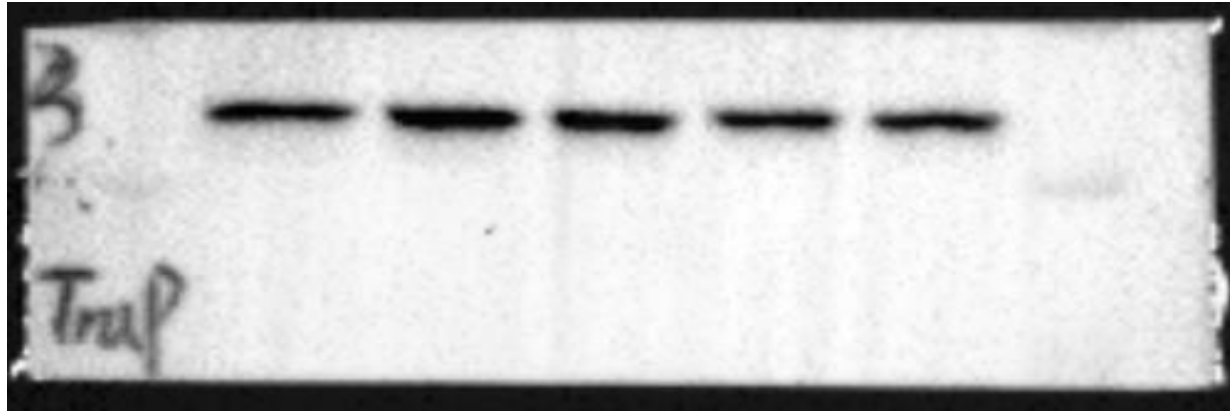
JZL(μ M)

4

10

20

TRAP



RANKL(75ng/ml)

JZL(μ M)

CTSK

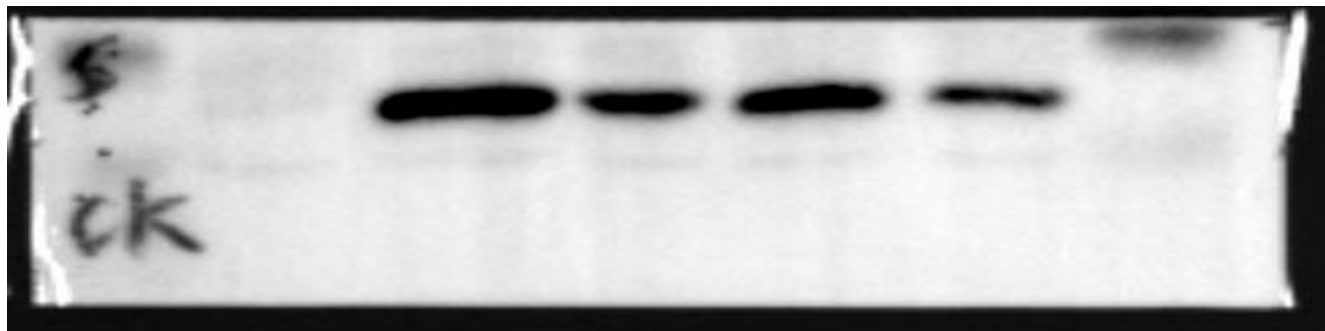
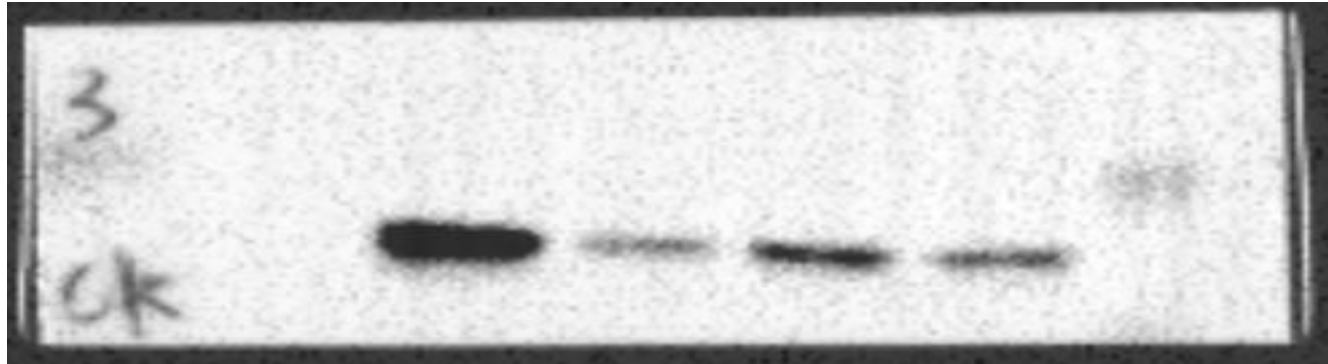
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4

10

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RANKL(75ng/ml)

JZL(μ M)

c-FOS

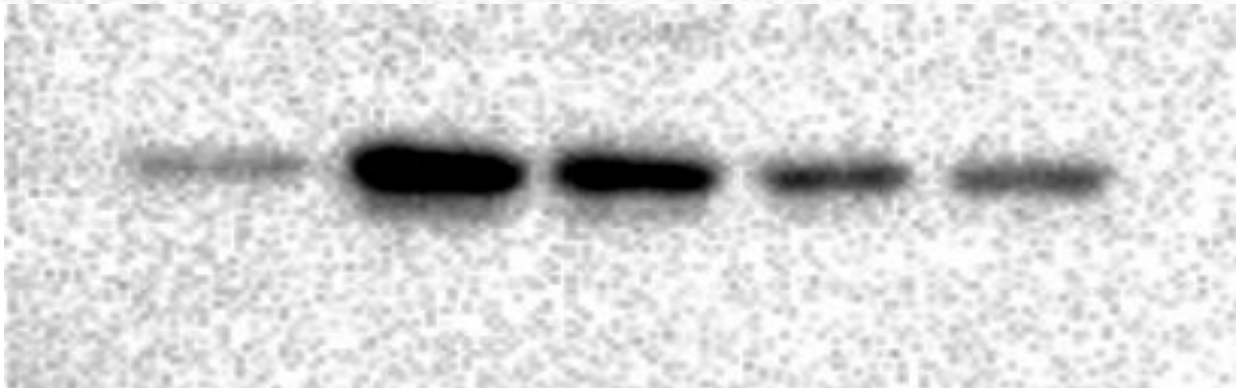
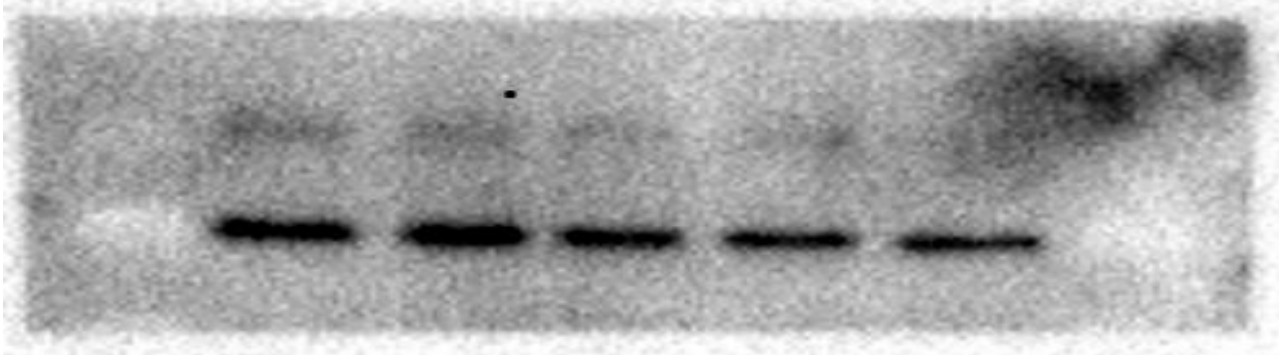
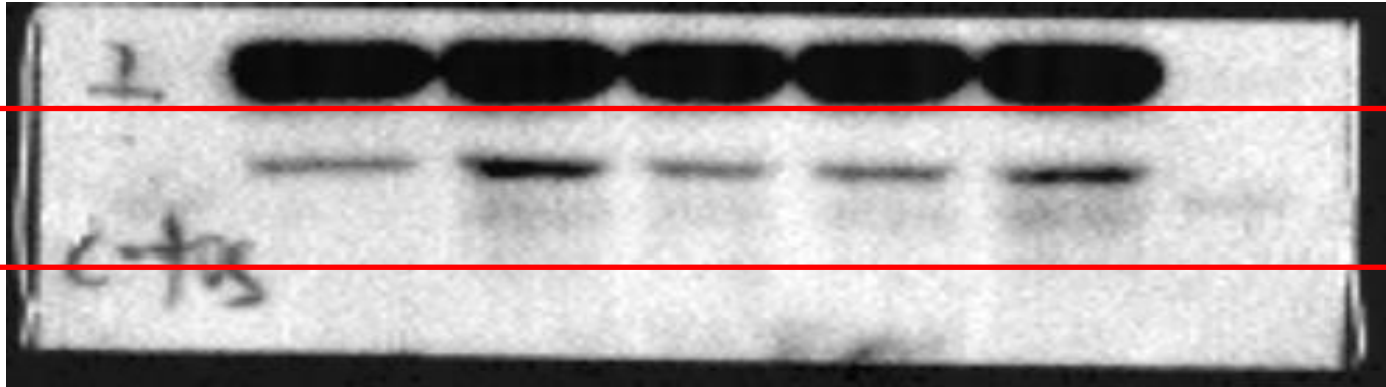
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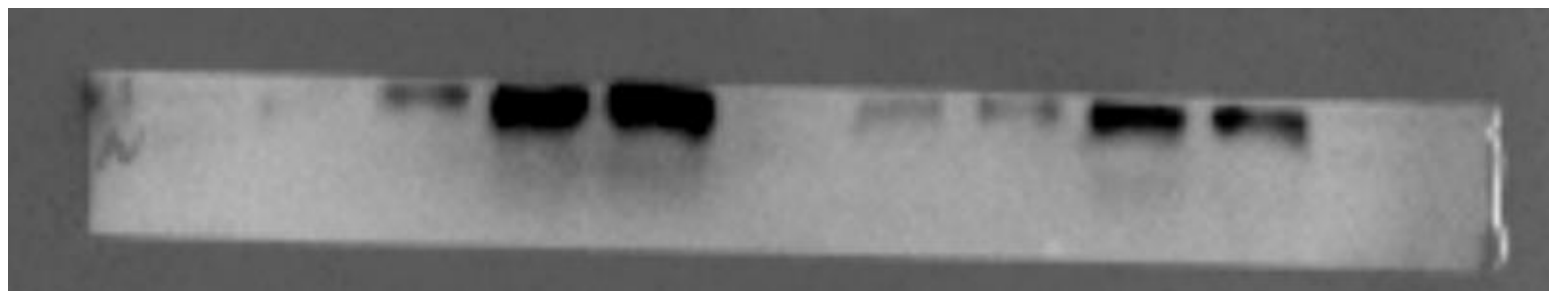
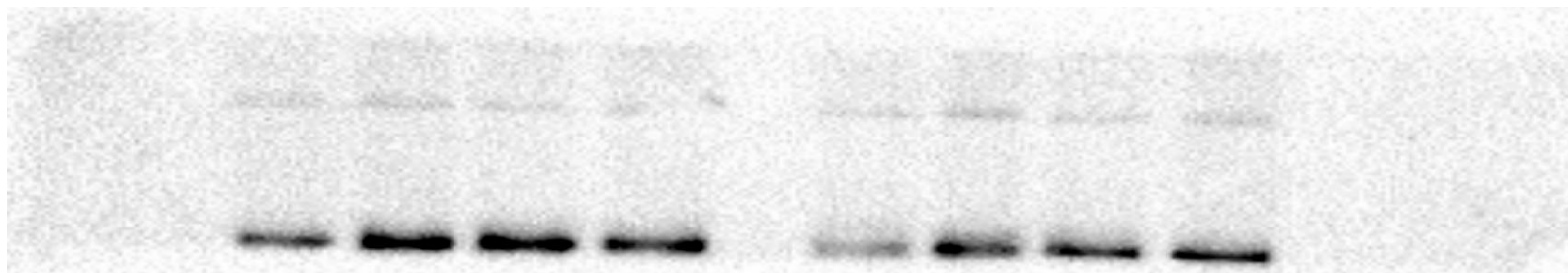
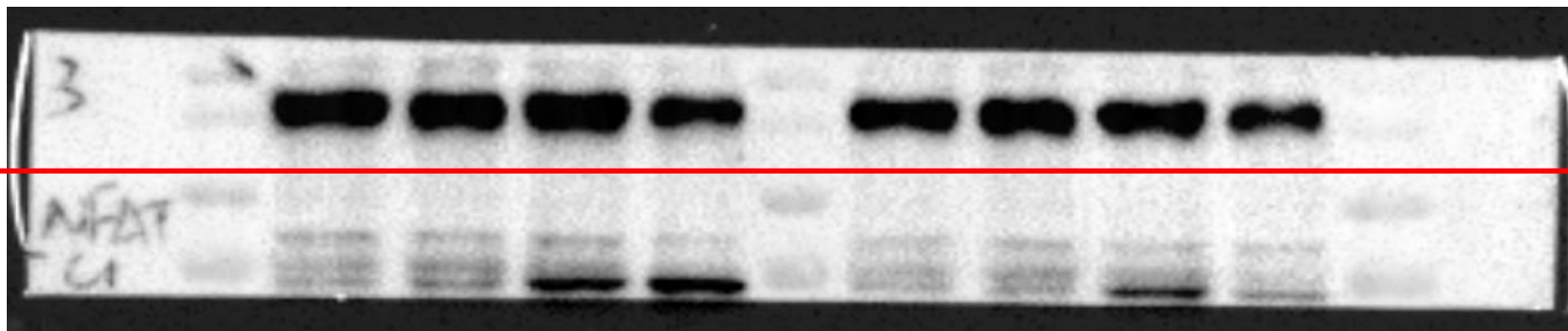
10

20

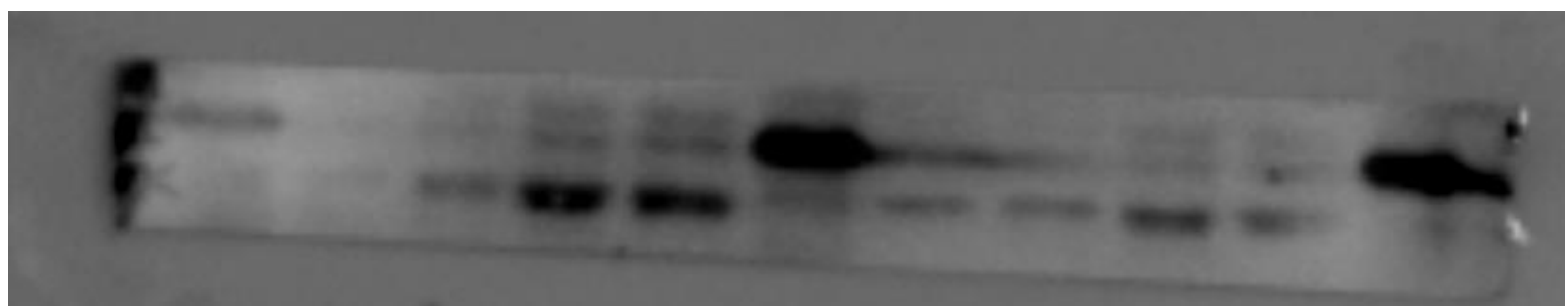
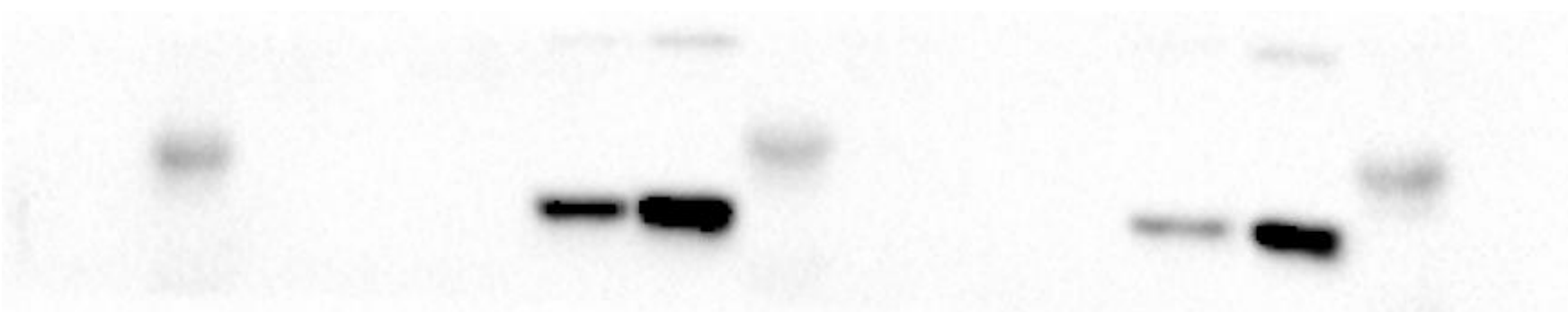
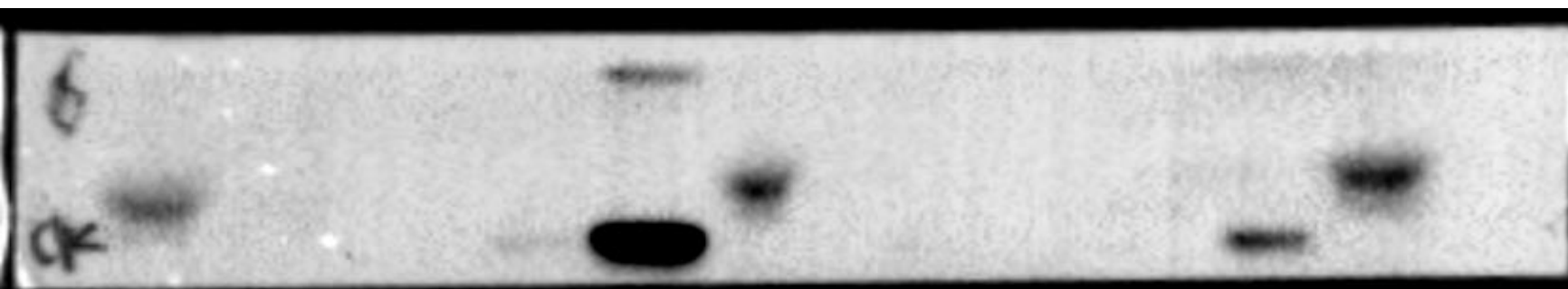


NFTAc1
—
+
JZL(μ m)

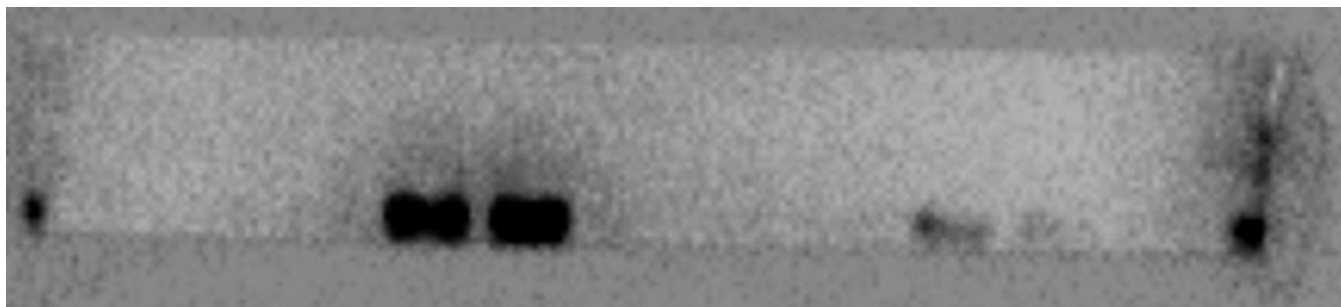
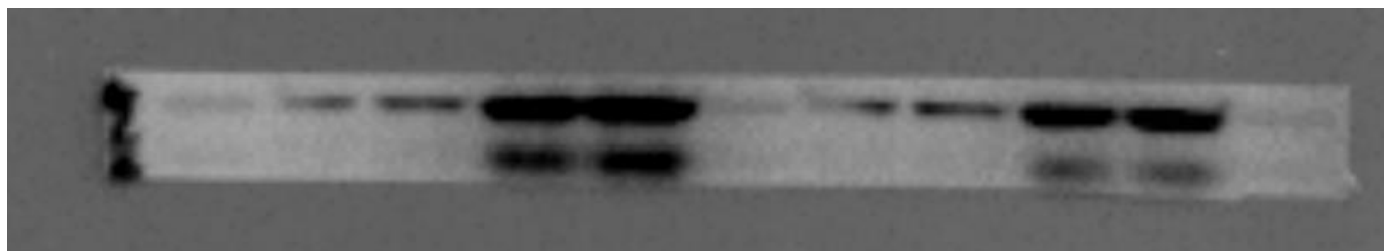
0
1
3
5
0
1
3
5
RANKL
(Days)



CTSK	-				+				JZL(μ m)	RANKL (Days)
	0	1	3	5	0	1	3	5		



c-FOS



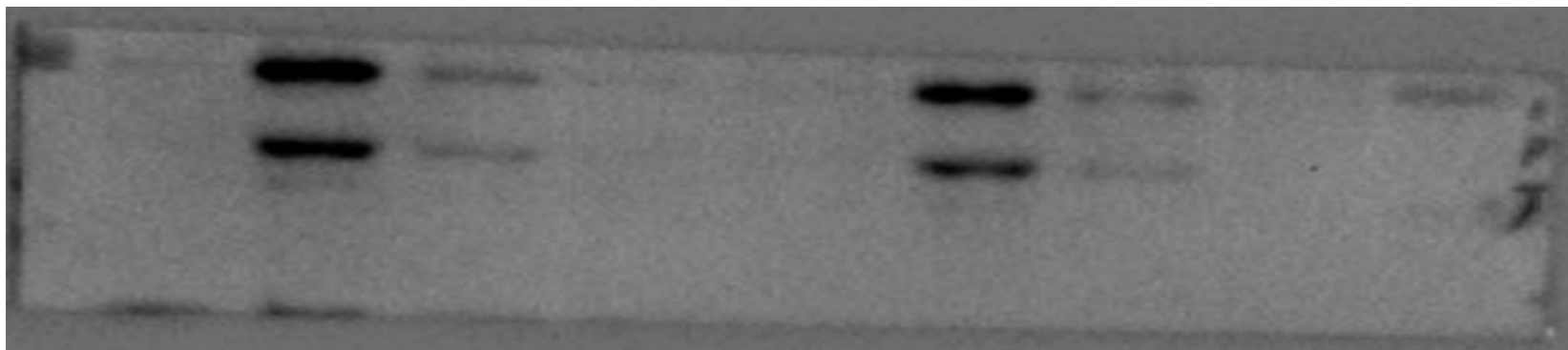
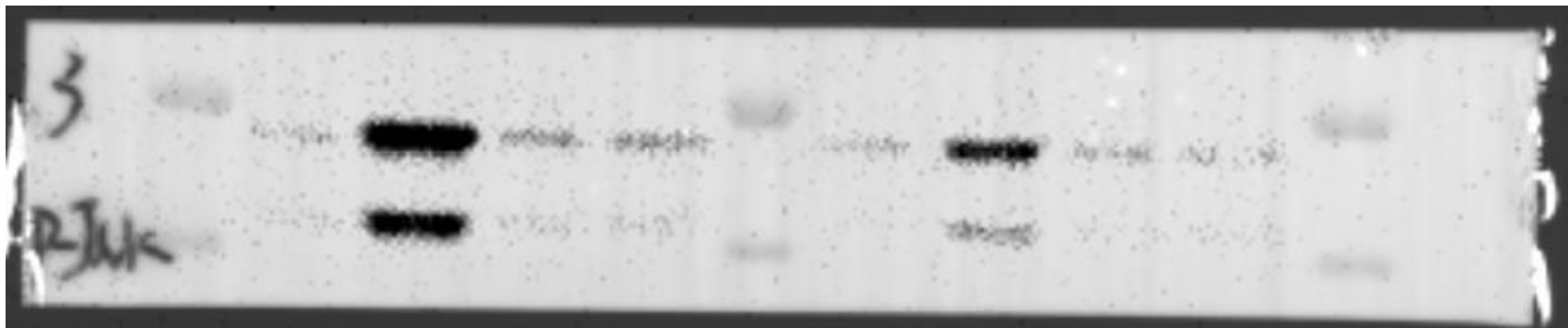
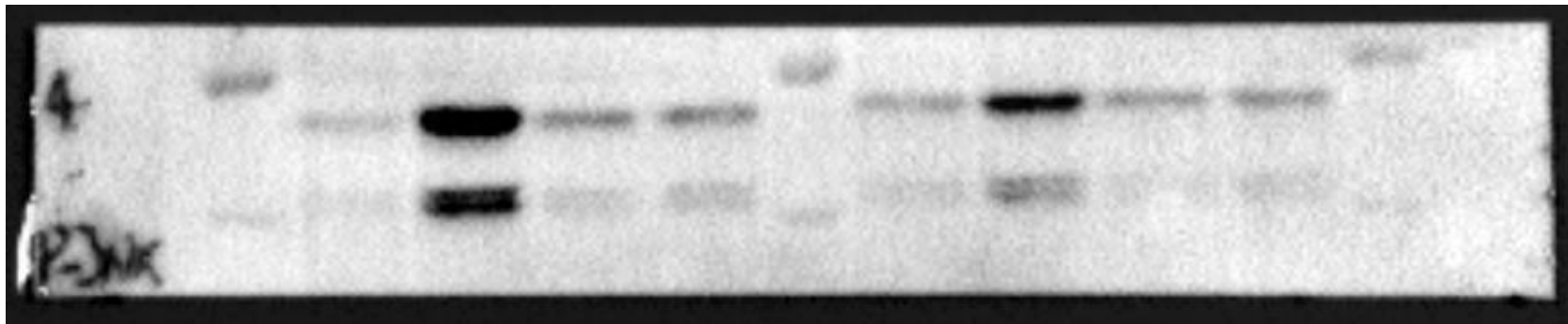
RANKL

RANKL+JZL184

p-JNK

0 15 30 60

0 15 30 60 (min)

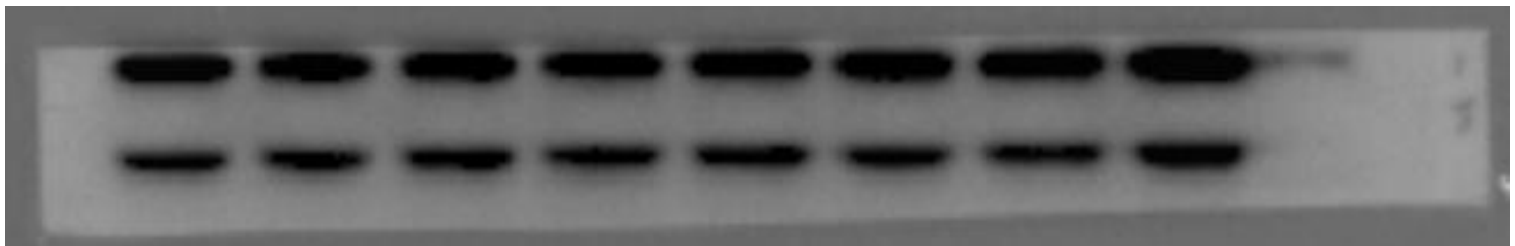
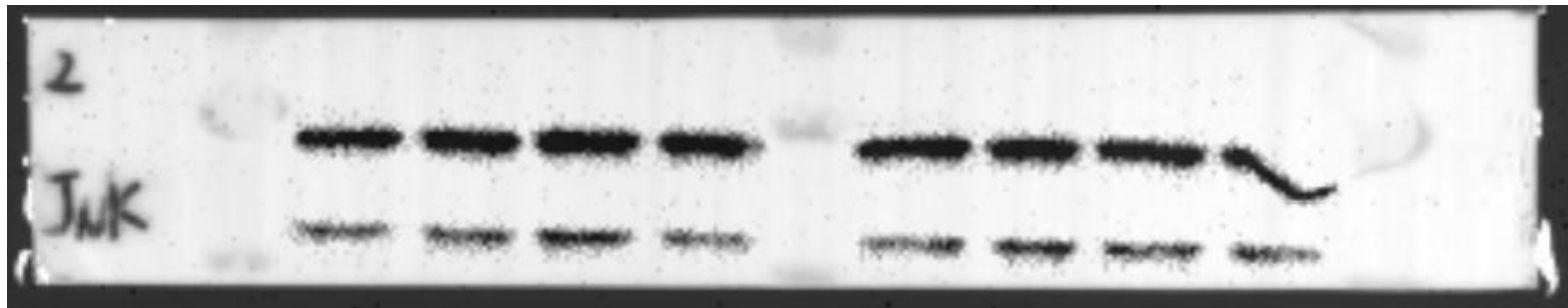
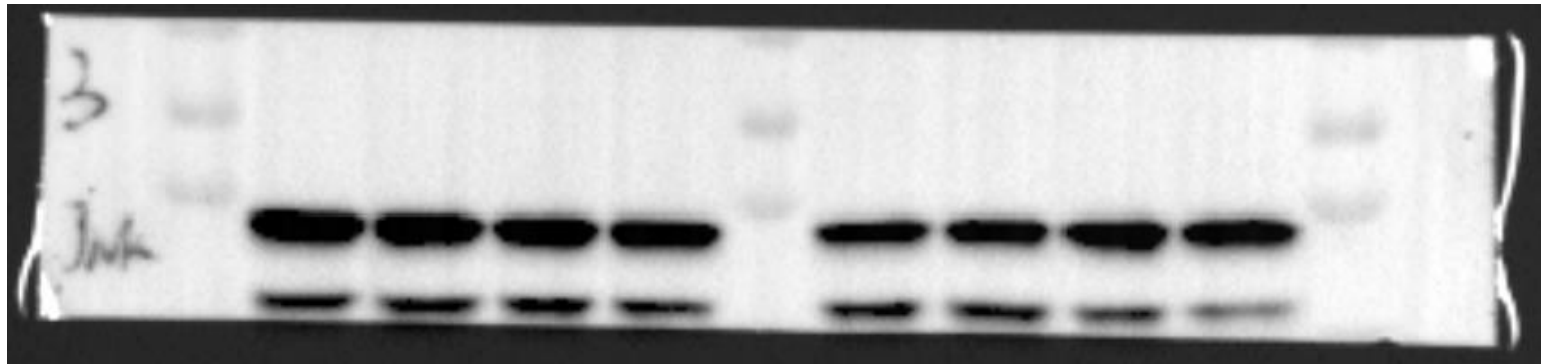


RANKL

RANKL+JZL184

0 15 30 60 0 15 30 60 (min)

JNK



RANKL

RANKL+JZL184

p-P38

0

15

30

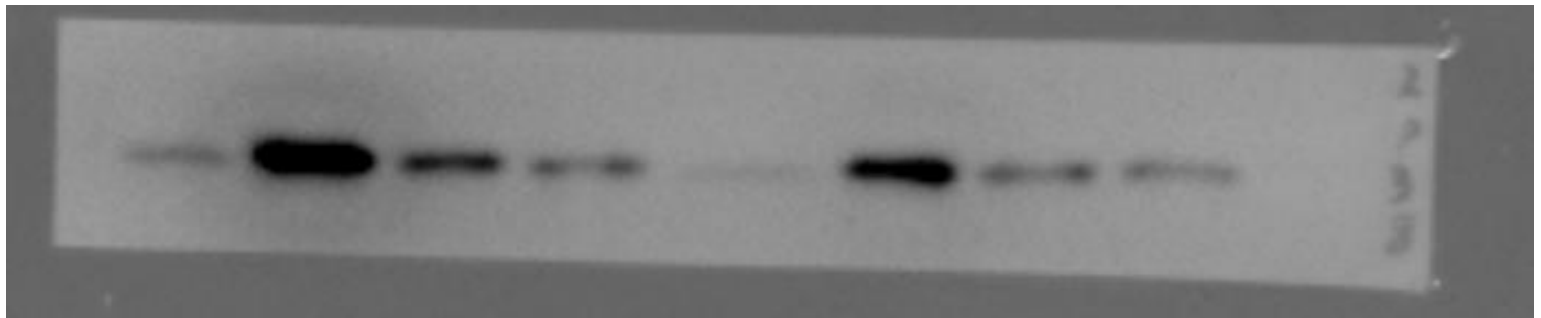
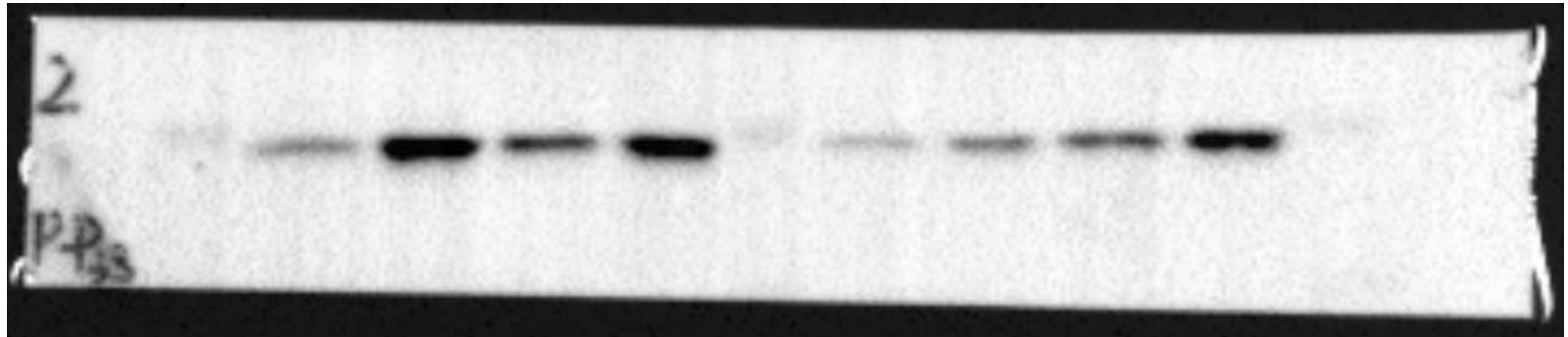
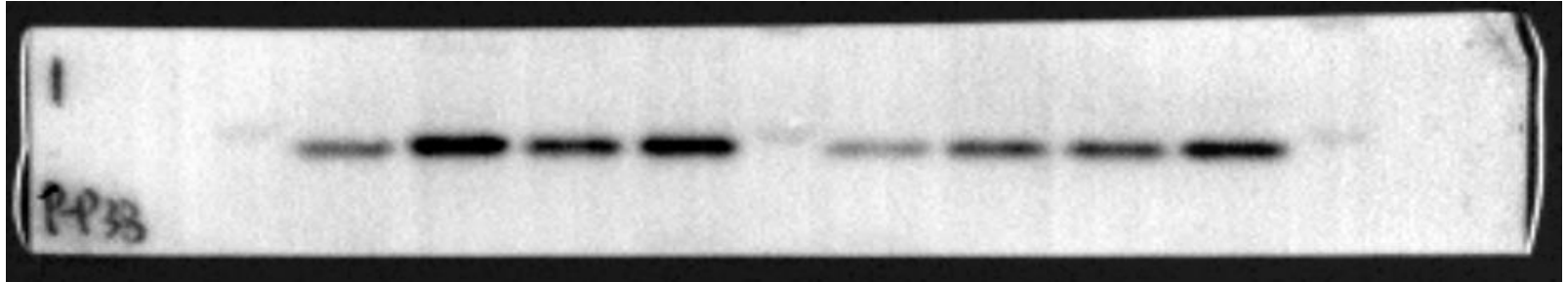
60

0

15

30

60 (min)



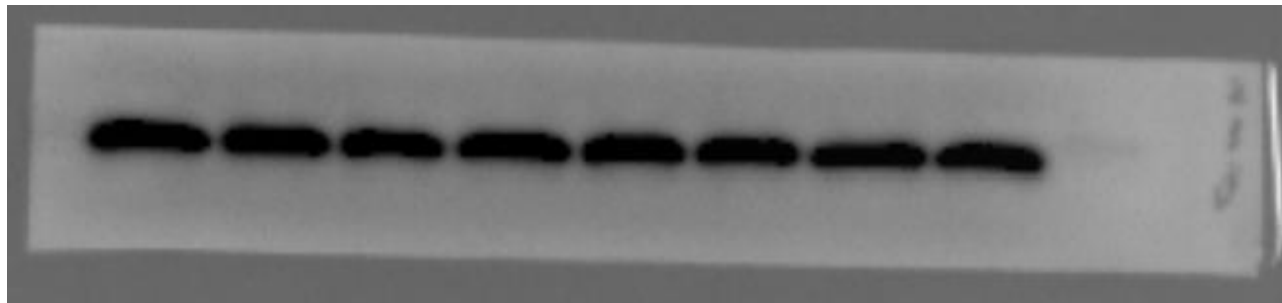
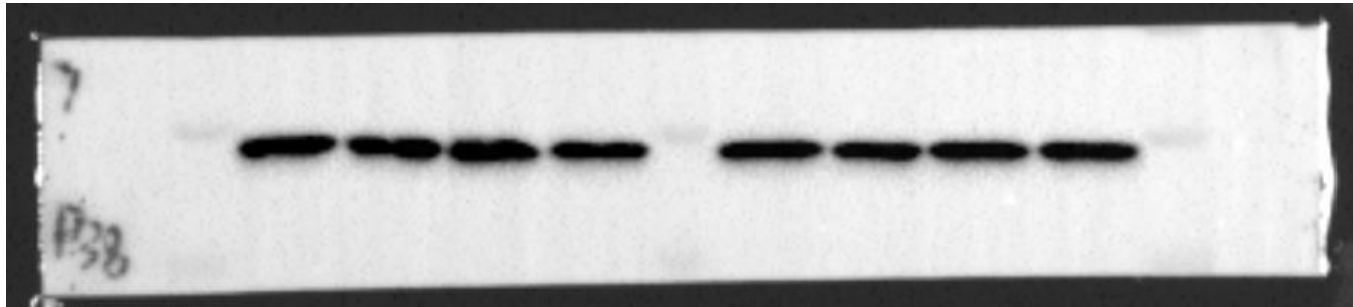
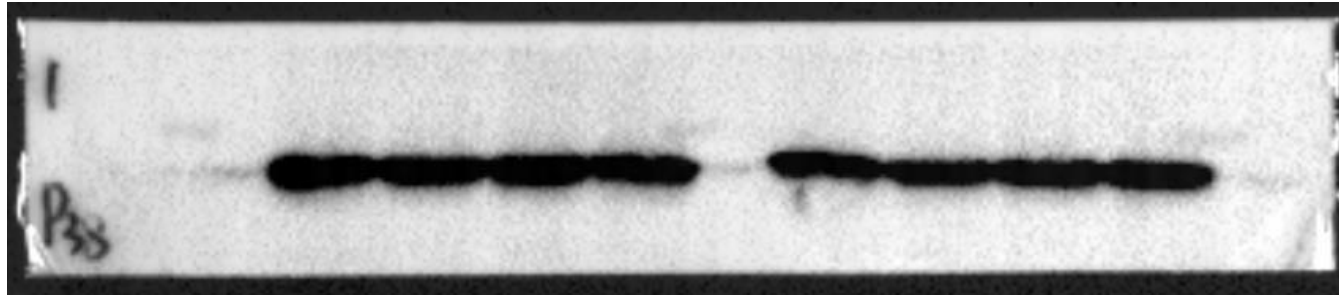
RANKL

RANKL+JZL184

P38

0 15 30 60

0 15 30 60 (min)



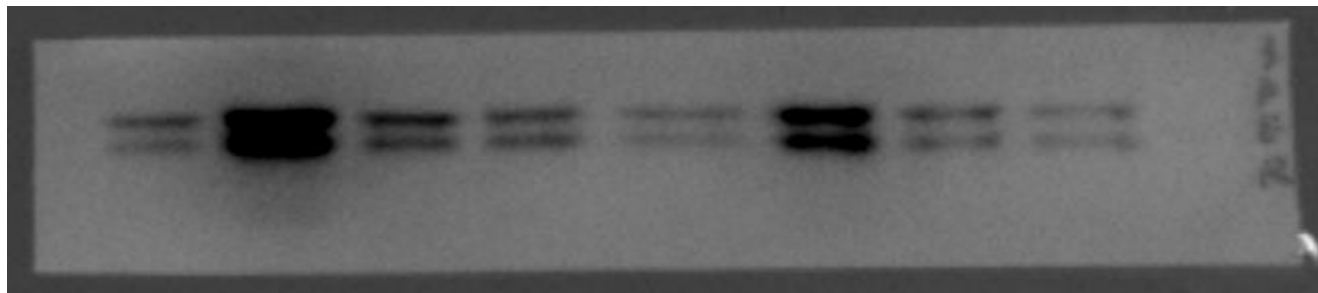
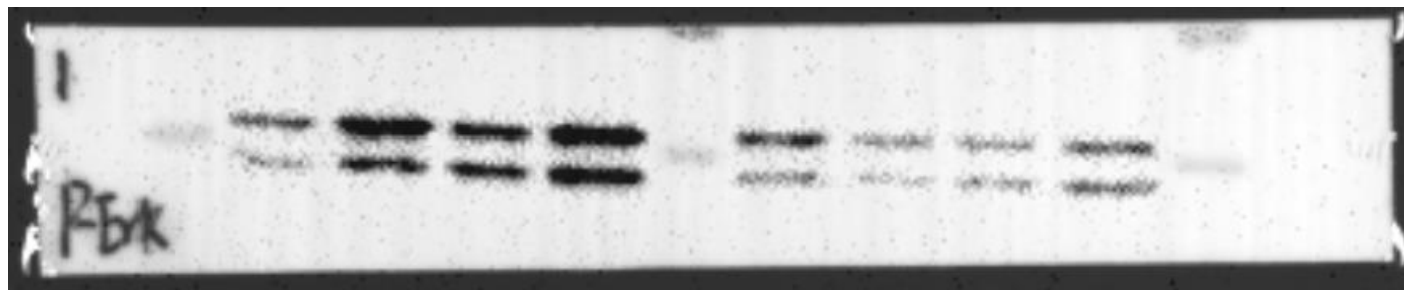
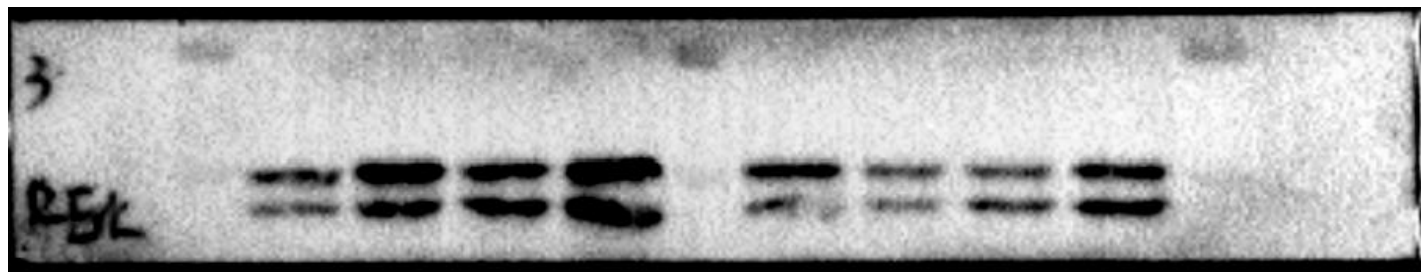
RANKL

RANKL+JZL184

p-ERK

0 15 30 60

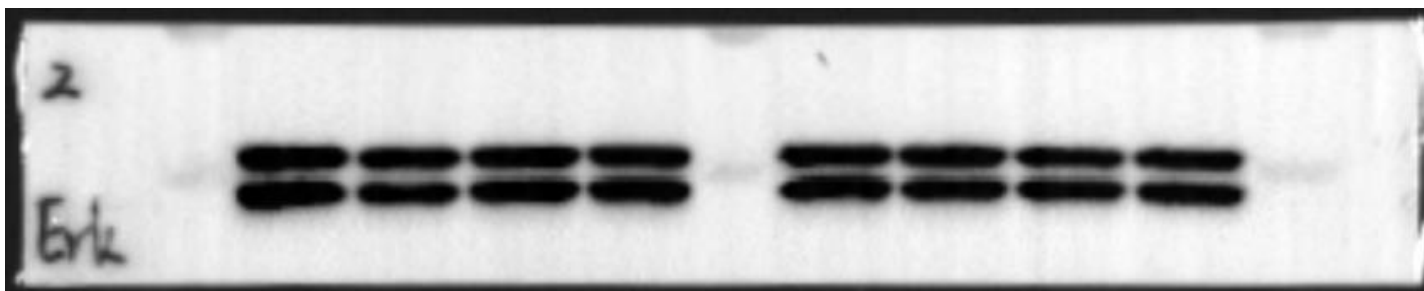
0 15 30 60 (min)



RANKL

RANKL+JZL184

ERK **0 15 30 60** **0 15 30 60 (min)**



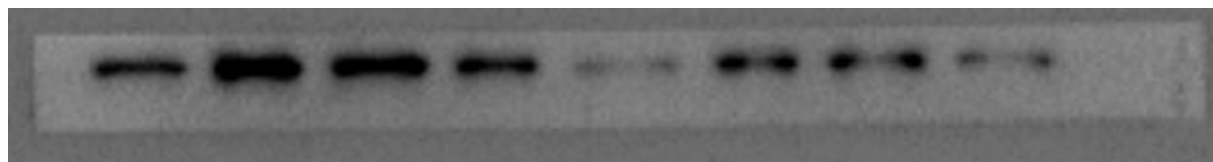
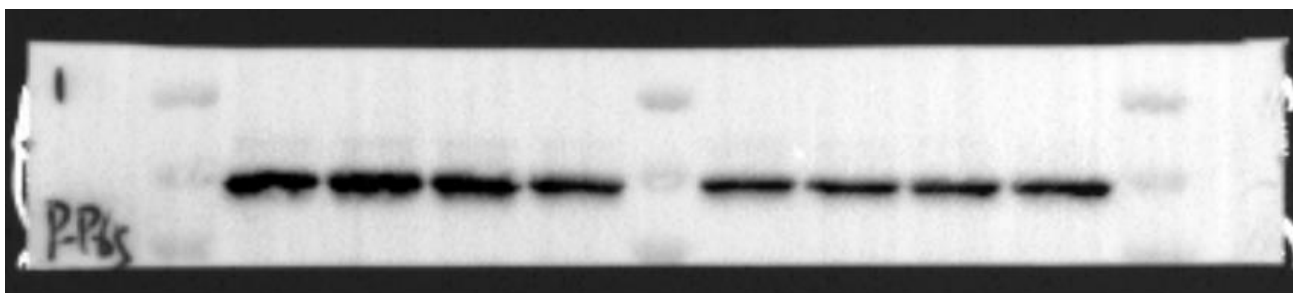
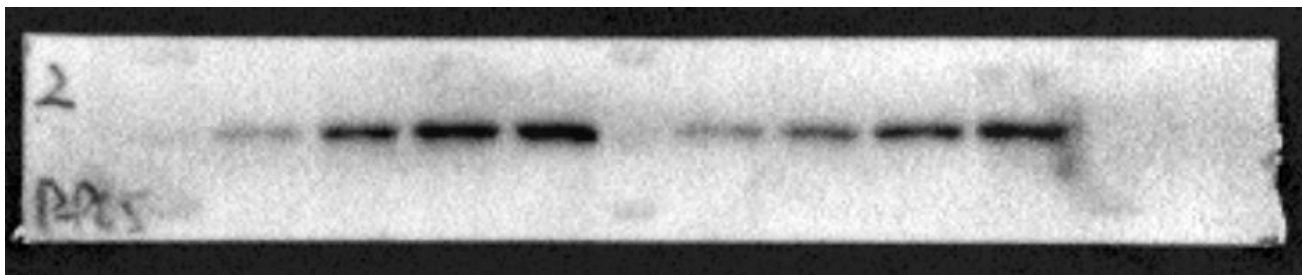
RANKL

RANKL+JZL184

p-P65

0 15 30 60

0 15 30 60 (min)



RANKL

RANKL+JZL184

P65

0

15

30

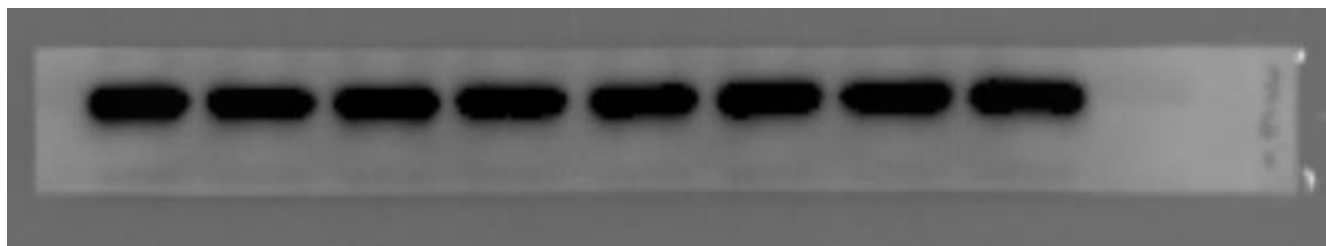
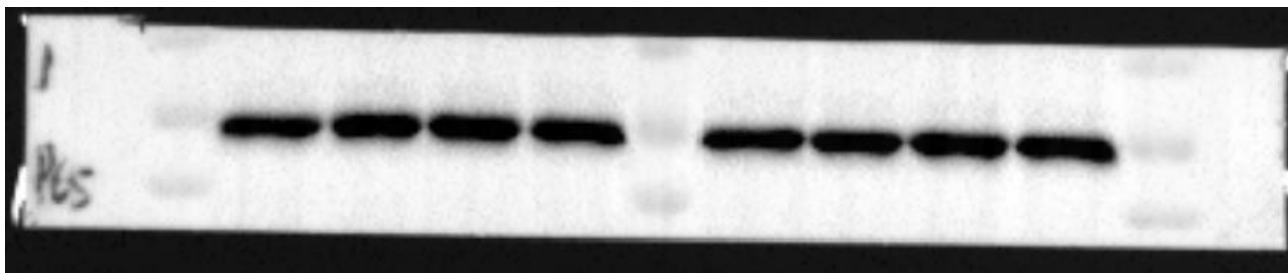
60

0

15

30

60 (min)



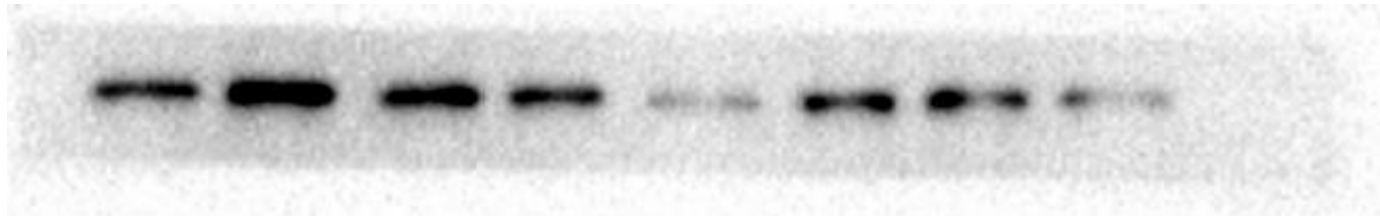
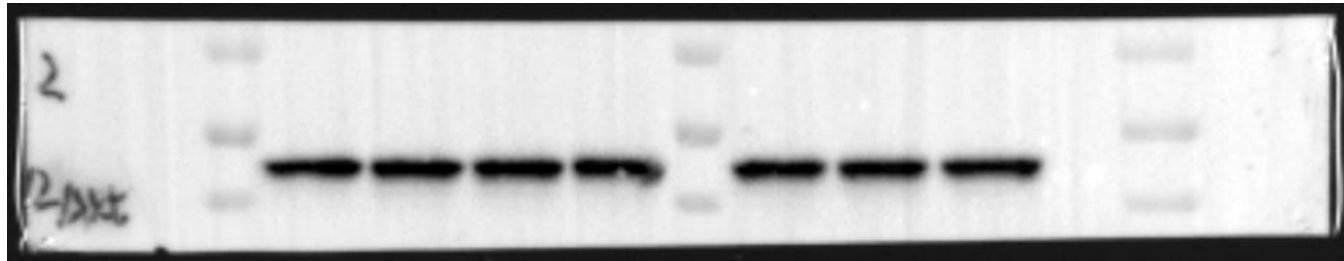
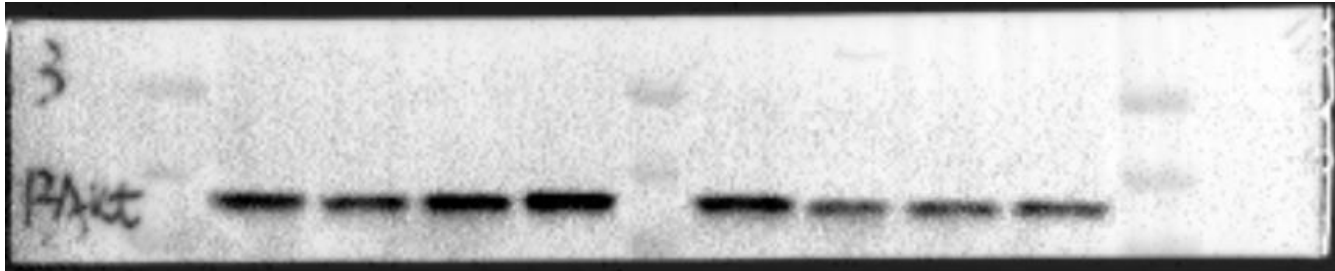
RANKL

RANKL+JZL184

p-Akt

0 15 30 60

0 15 30 60 (min)



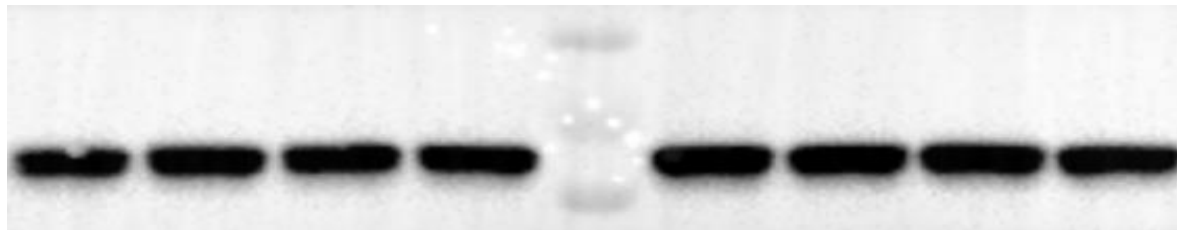
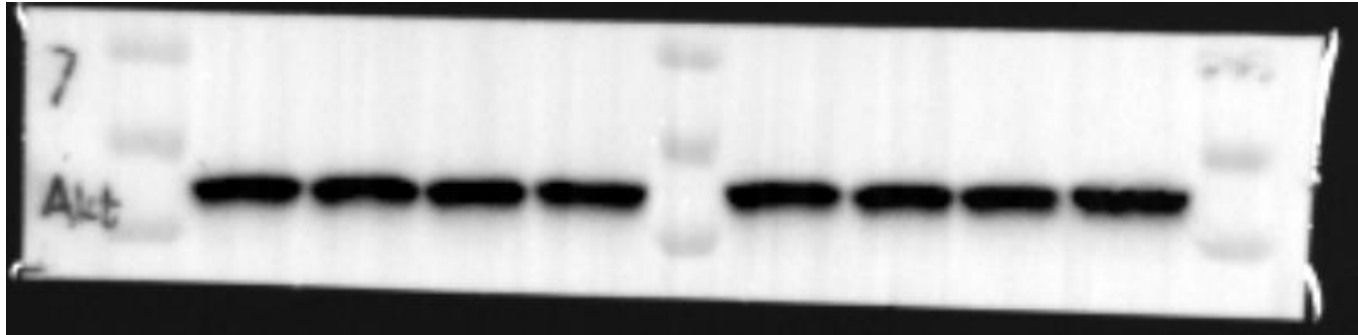
RANKL

RANKL+JZL184

Akt

0 15 30 60

0 15 30 60 (min)



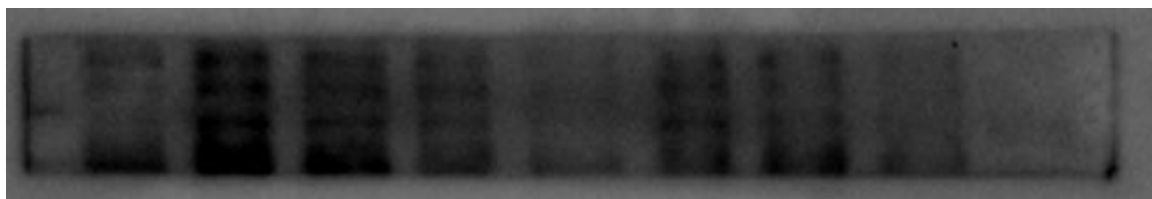
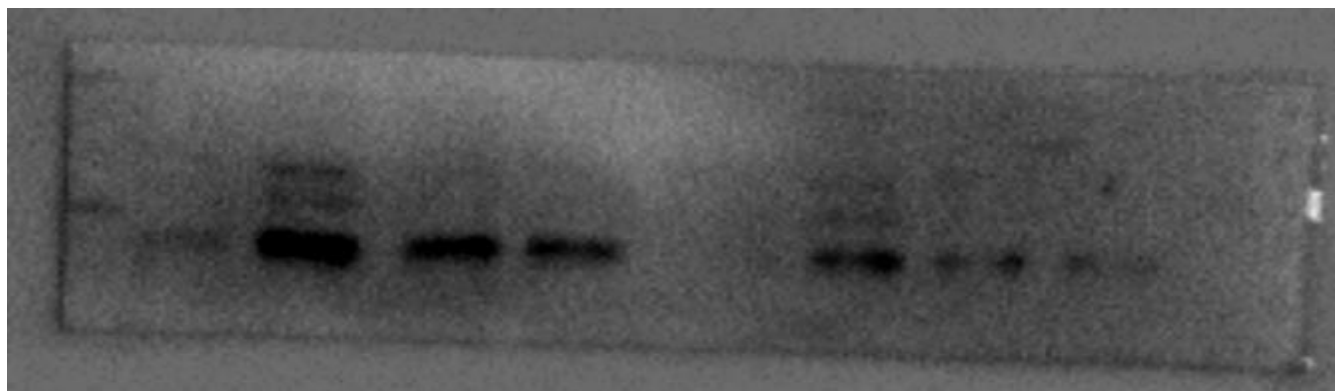
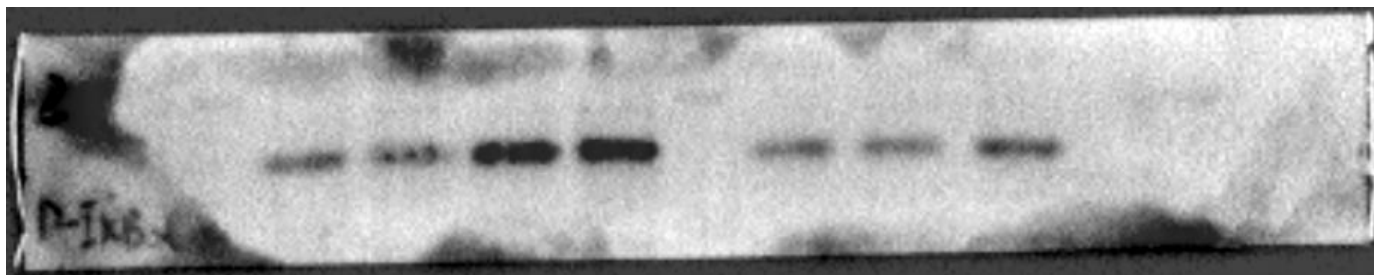
RANKL

RANKL+JZL184

P-IkB α

0 15 30 60

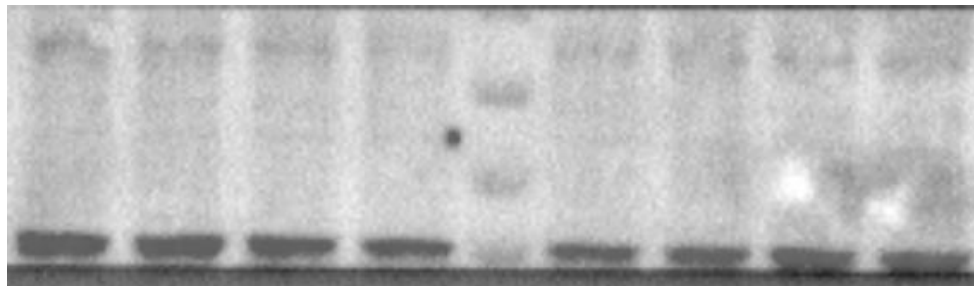
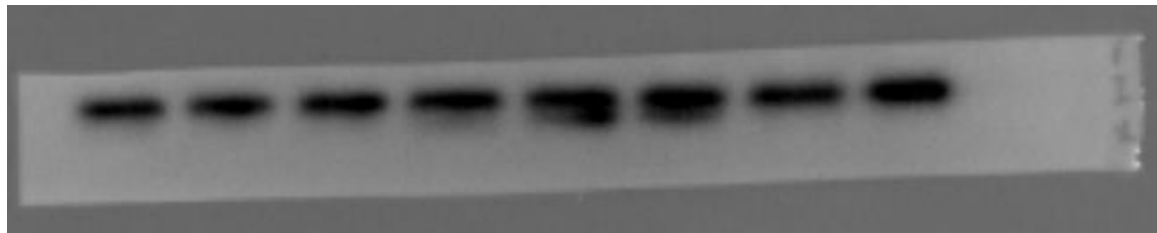
0 15 30 60 (min)



RANKL

RANKL+JZL184

I κ B α **0 15 30 60** **0 15 30 60 (min)**



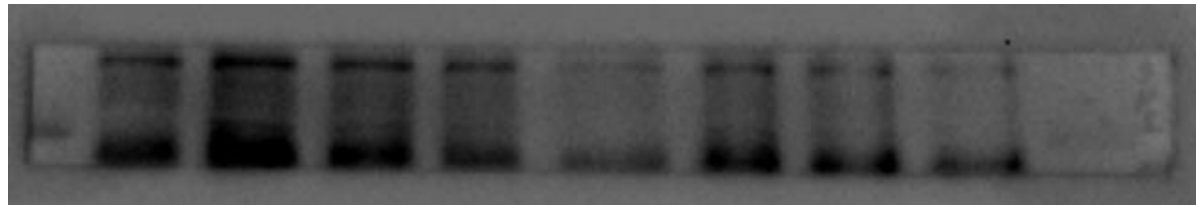
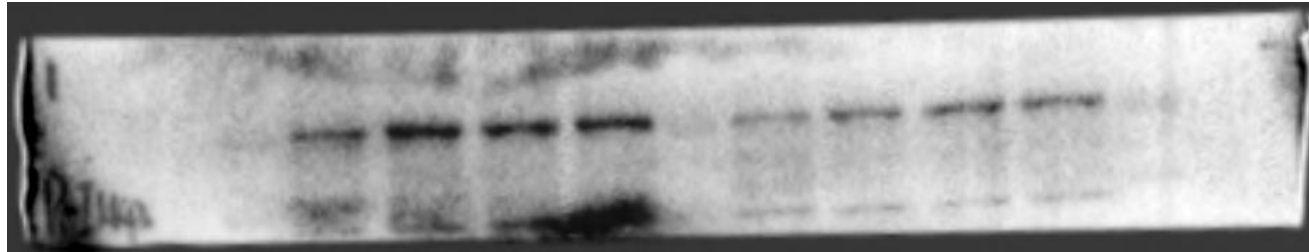
RANKL

RANKL+JZL184

P-IKK β

0 15 30 60

0 15 30 60 (min)



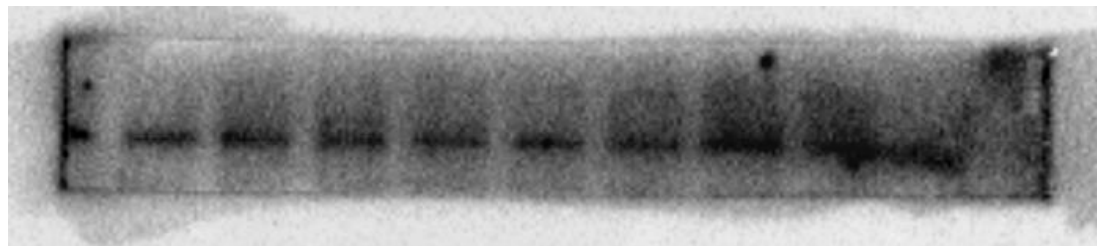
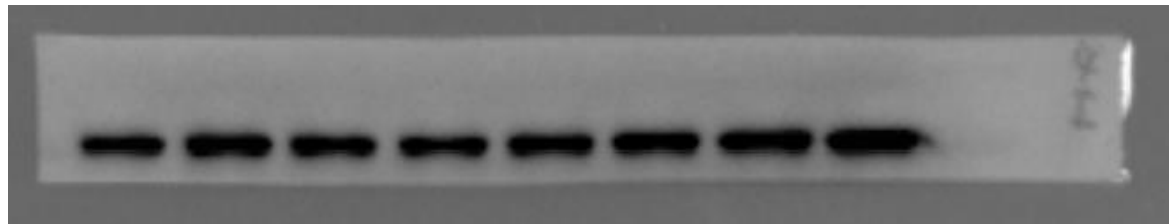
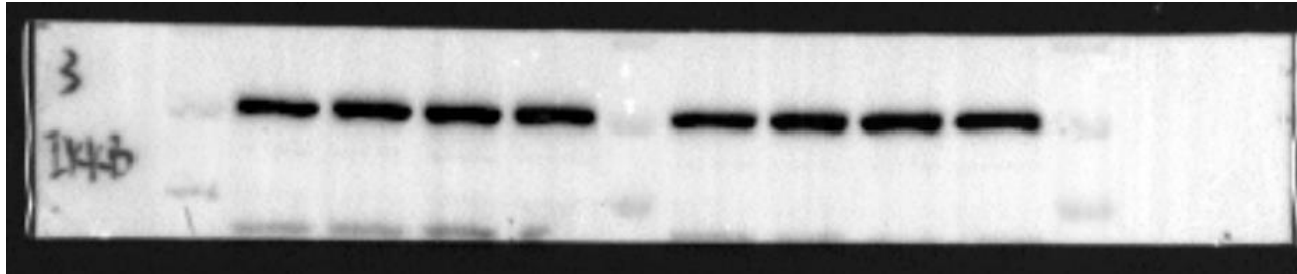
RANKL

RANKL+JZL184

IKK β

0 15 30 60

0 15 30 60 (min)



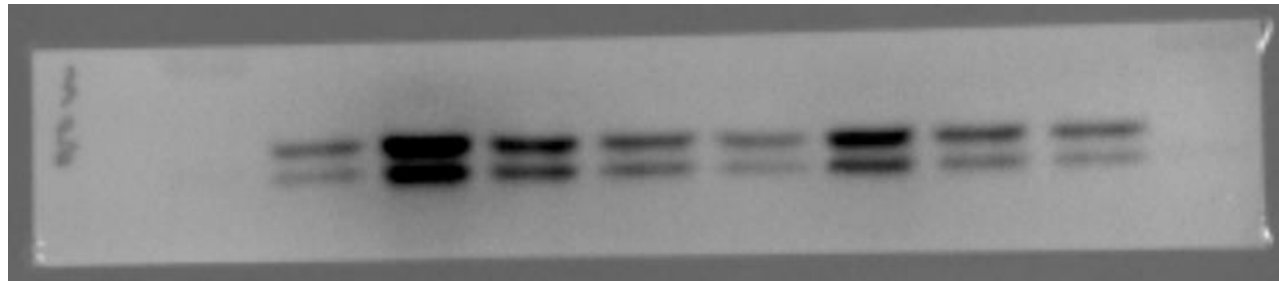
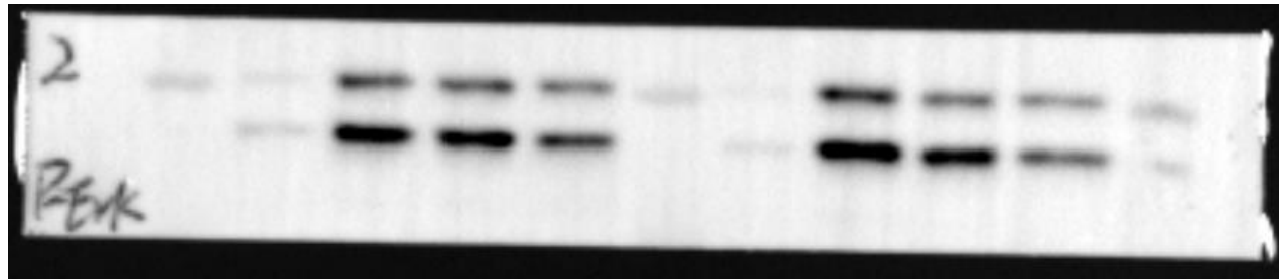
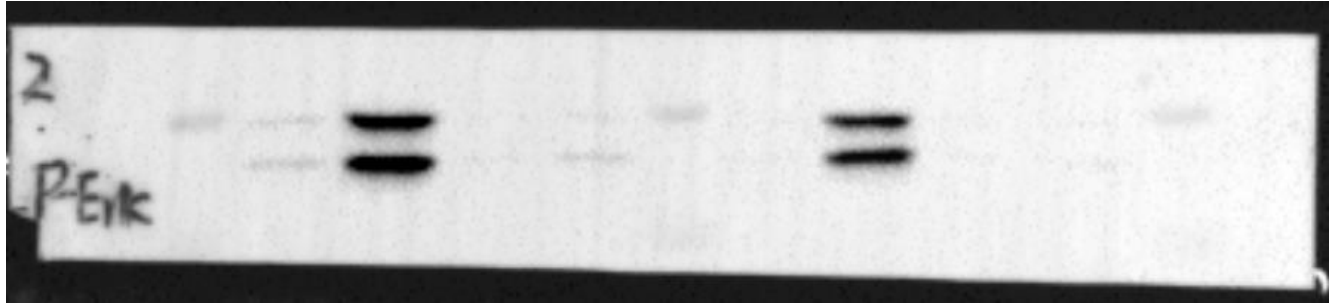
sh-Con+RANKL

Sh-Magl+RANKL

p-ERK

0 15 30 60

0 15 30 60 (min)

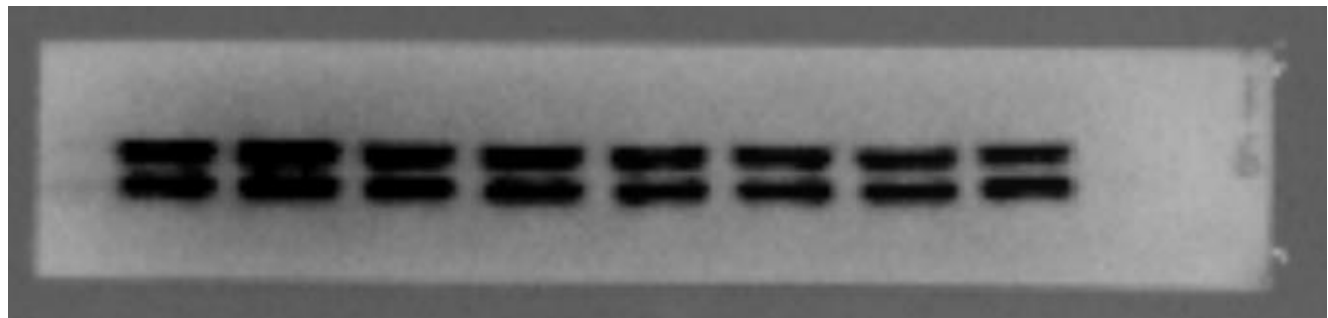
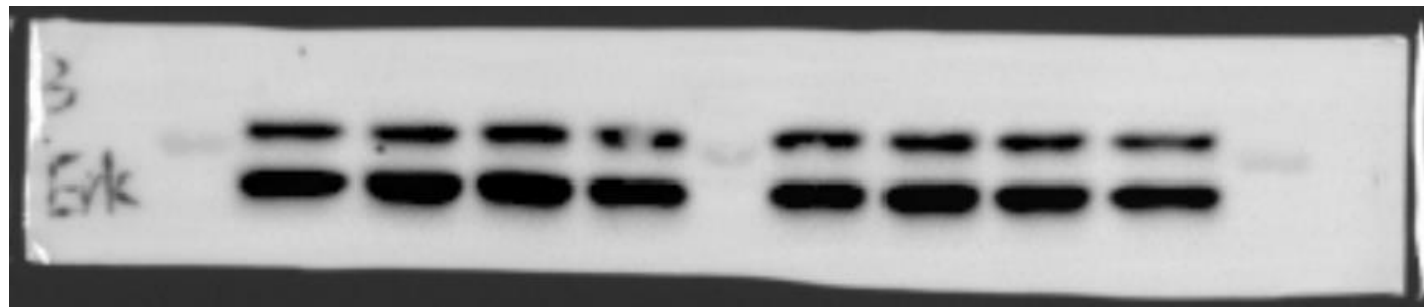


sh-Con+RANKL

Sh-Magl+RANKL

ERK

0 15 30 60 0 15 30 60 (min)



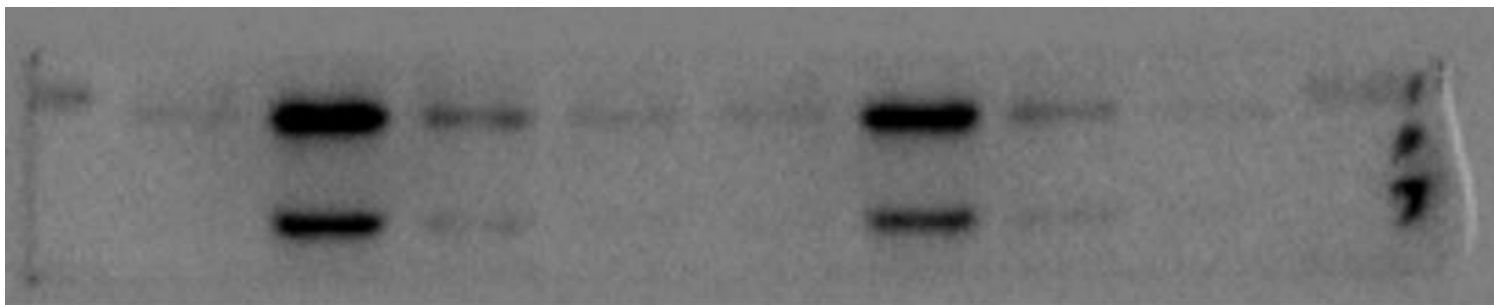
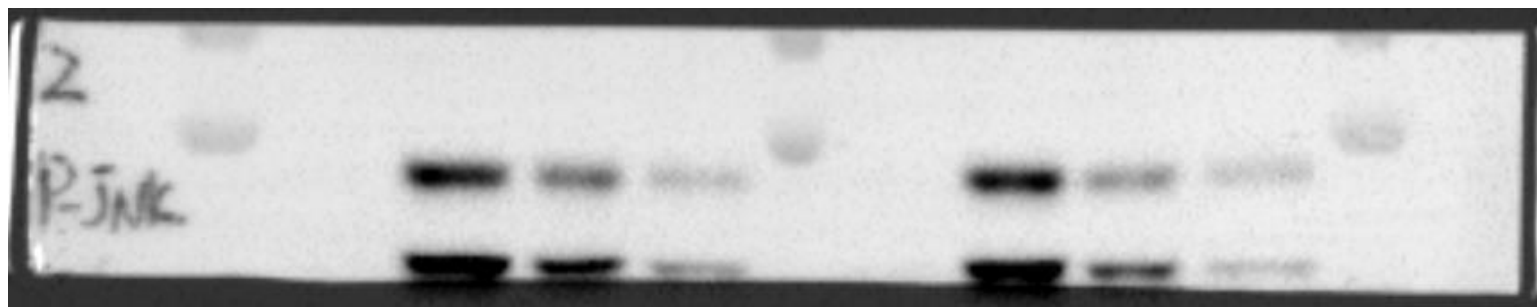
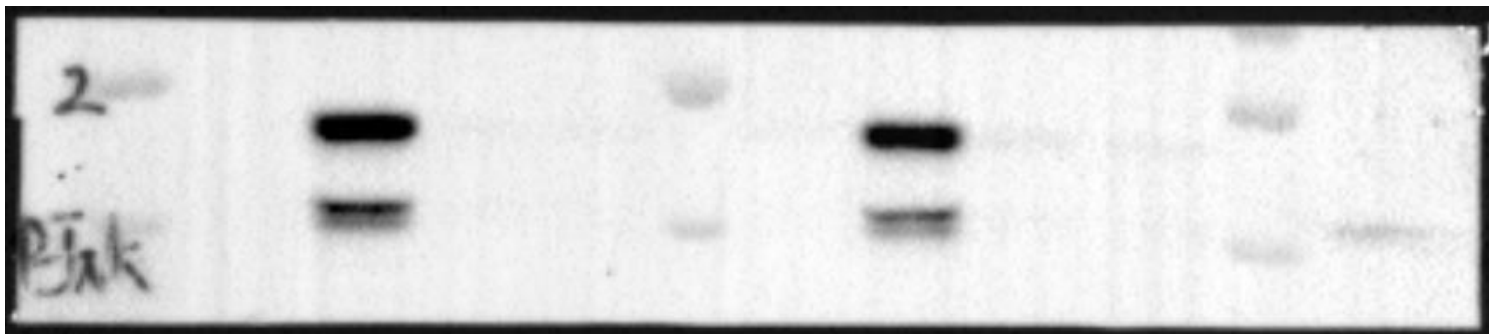
sh-Con+RANKL

Sh-Magl+RANKL

p-JNK

0 15 30 60

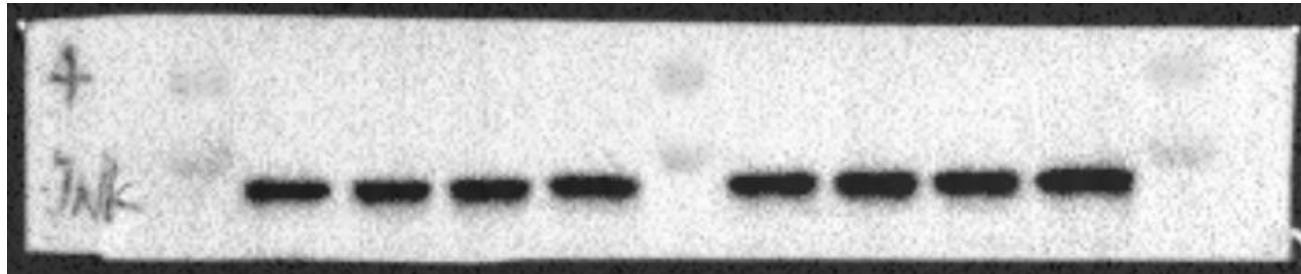
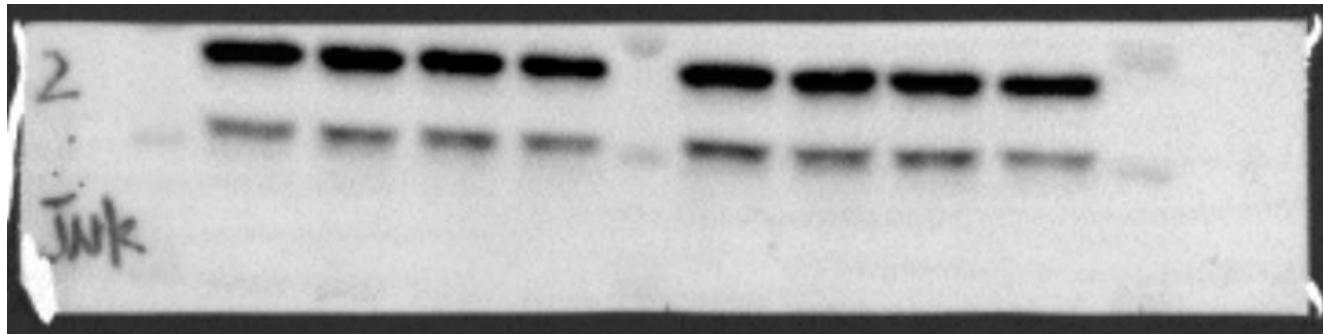
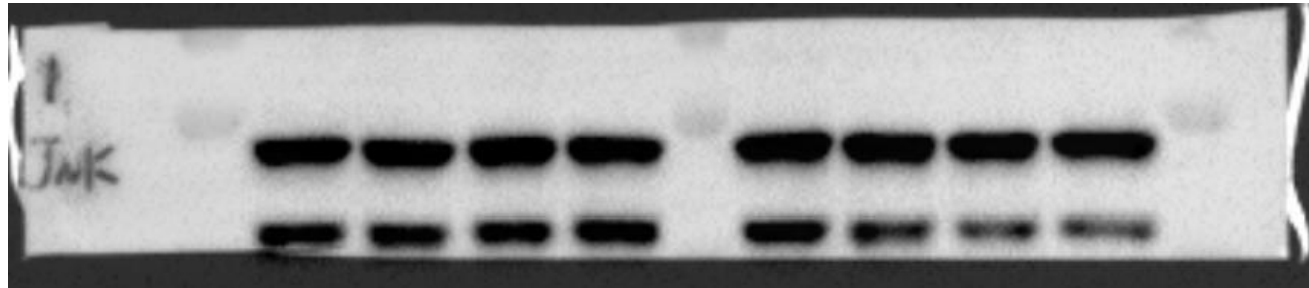
0 15 30 60 (min)



sh-Con+RANKL

Sh-Magl+RANKL

JNK **0 15 30 60** **0 15 30 60 (min)**



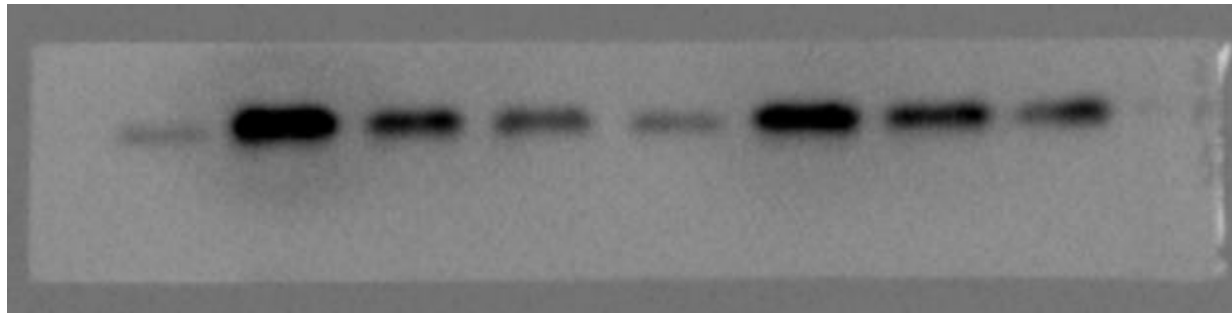
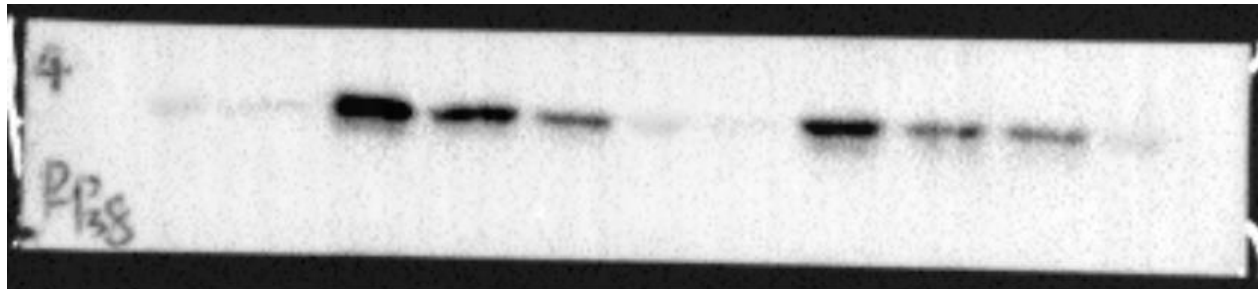
sh-Con+RANKL

Sh-MagI+RANKL

p-P38

0 15 30 60

0 15 30 60 (min)

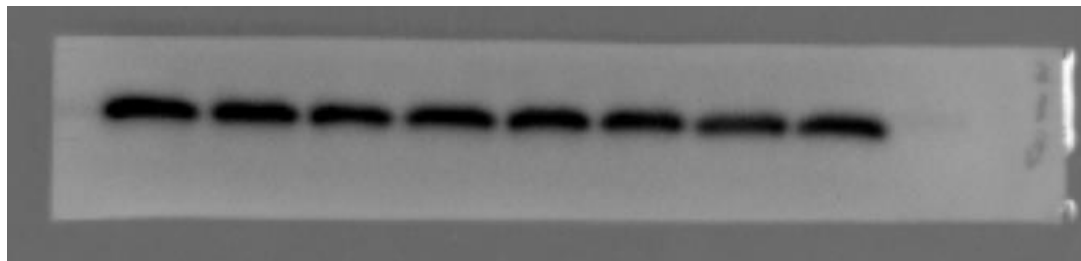
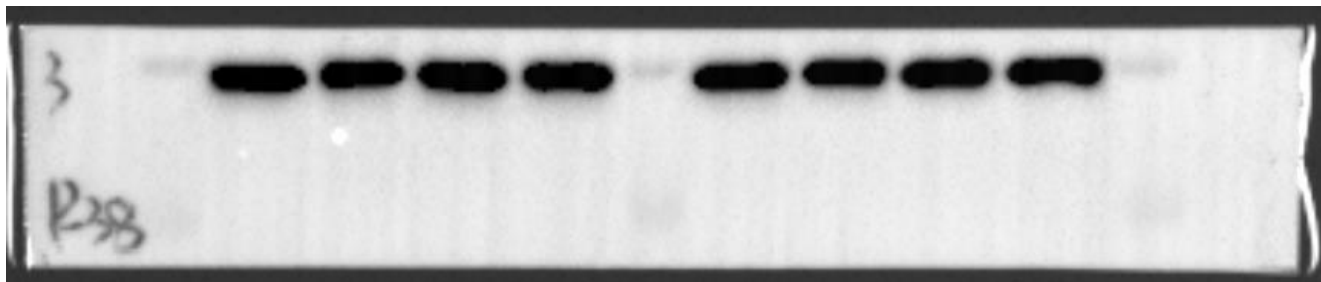
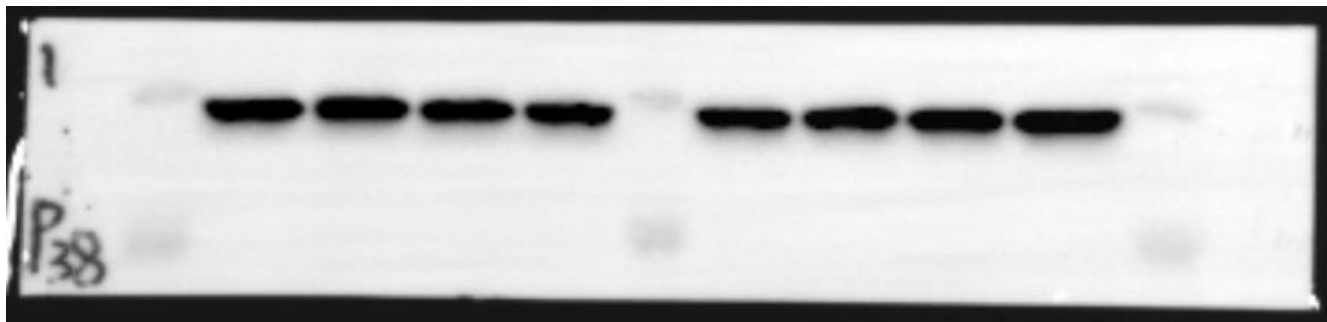


sh-Con+RANKL

Sh-Magl+RANKL

P38

0 15 30 60 0 15 30 60 (min)



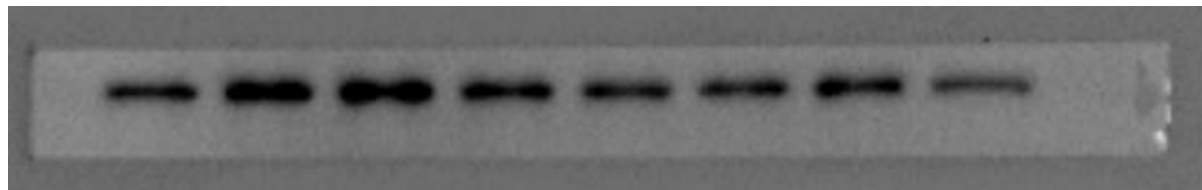
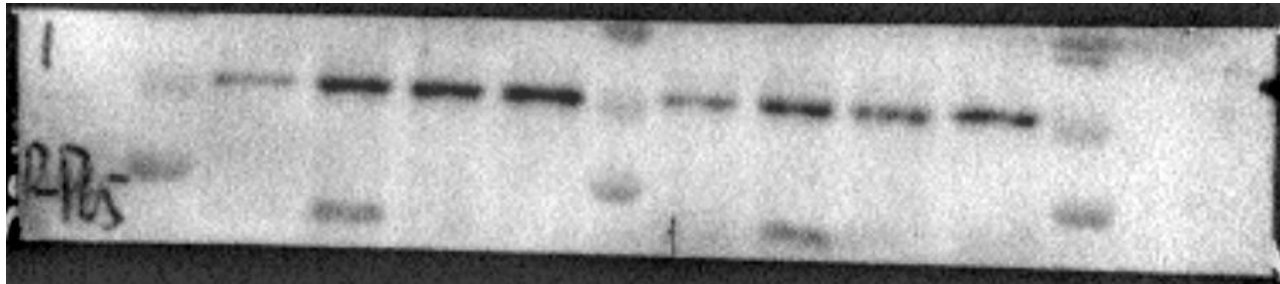
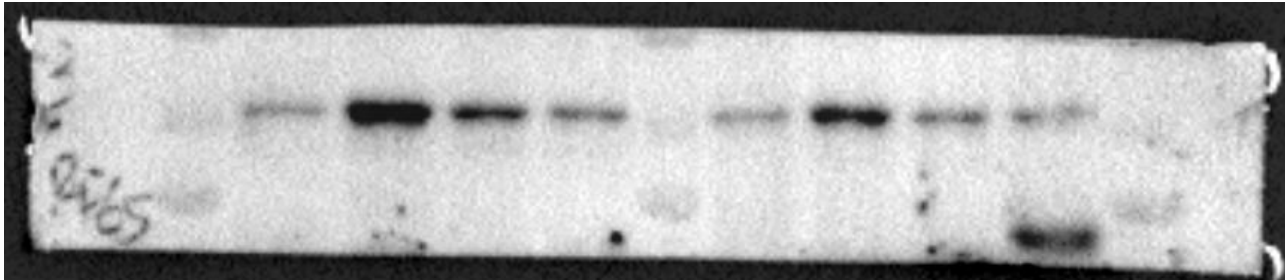
sh-Con+RANKL

Sh-MagI+RANKL

p-P65

0 15 30 60

0 15 30 60 (min)

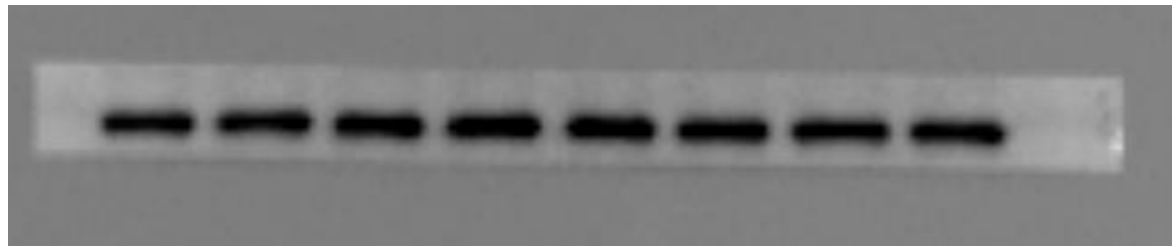
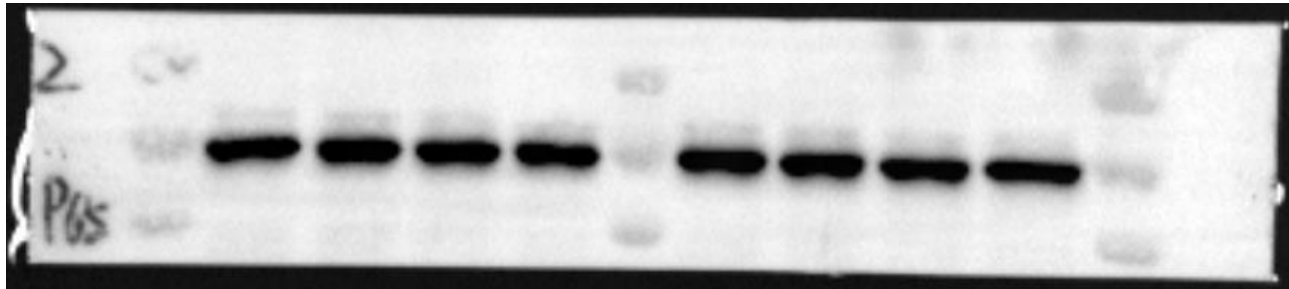
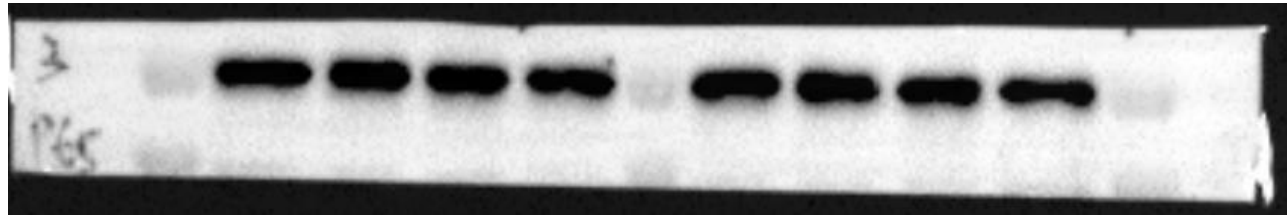


sh-Con+RANKL

Sh-Magl+RANKL

0 15 30 60 0 15 30 60 (min)

P65



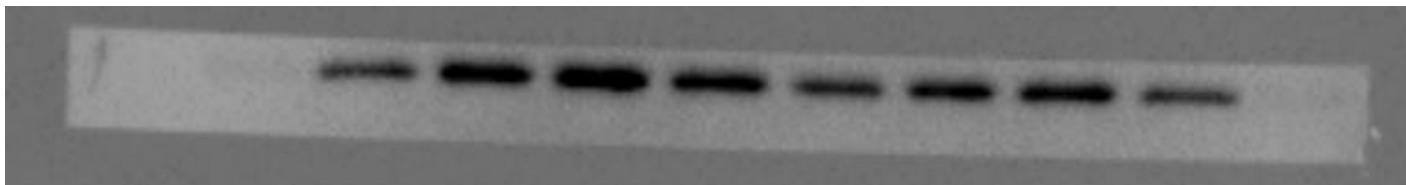
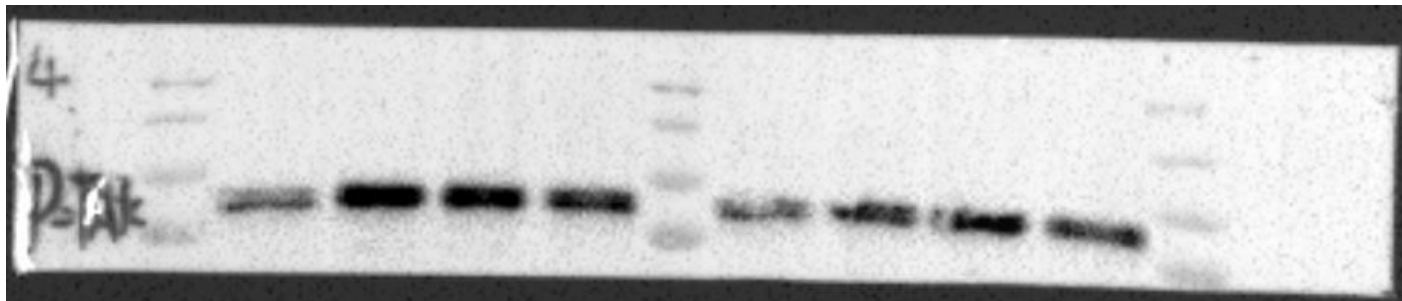
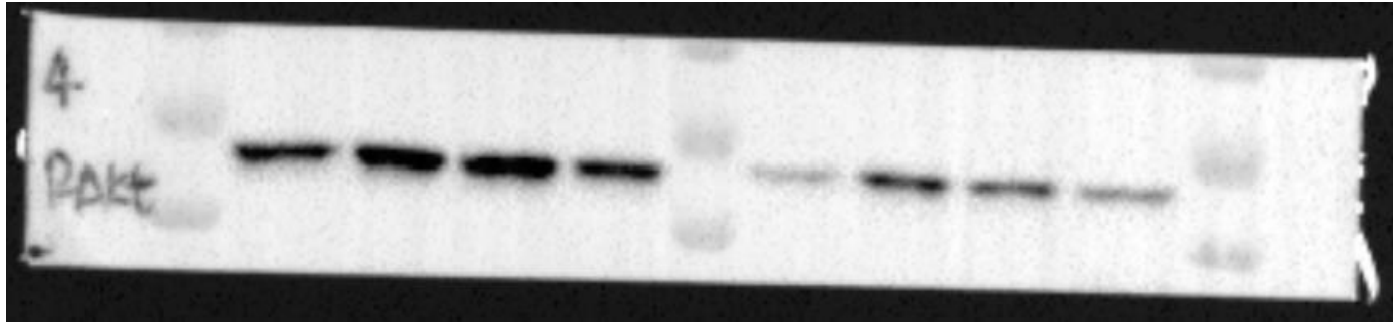
sh-Con+RANKL

Sh-Magl+RANKL

0 15 30 60

0 15 30 60 (min)

P-Akt

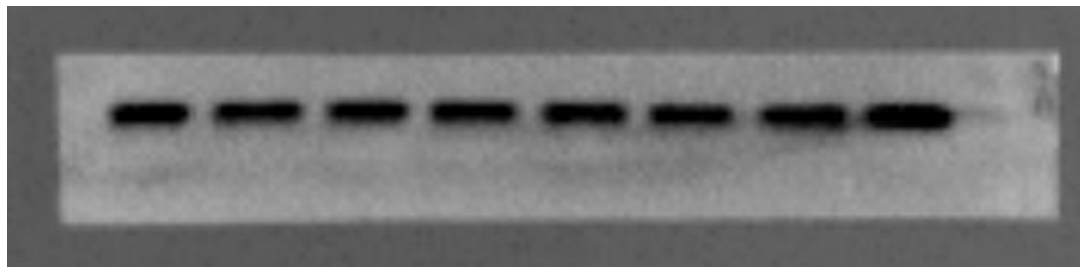
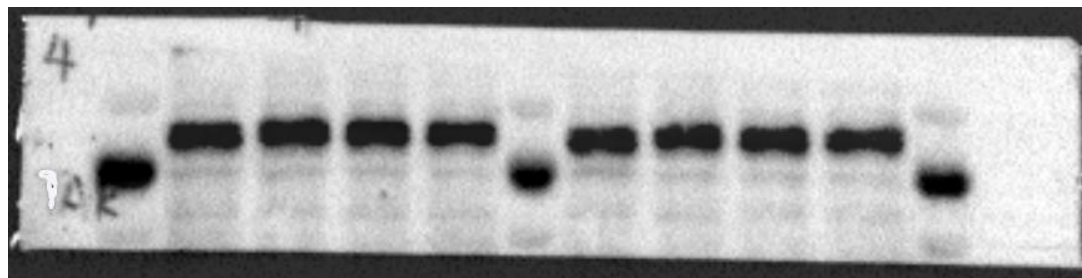
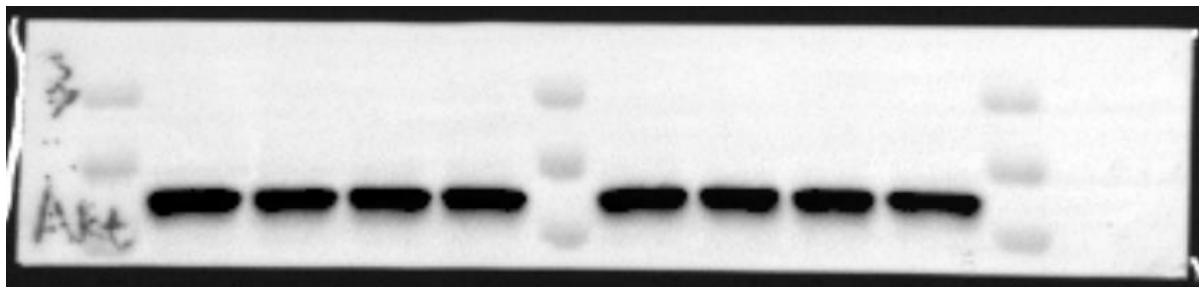


sh-Con+RANKL

Sh-MagI+RANKL

0 15 30 60 0 15 30 60 (min)

Akt



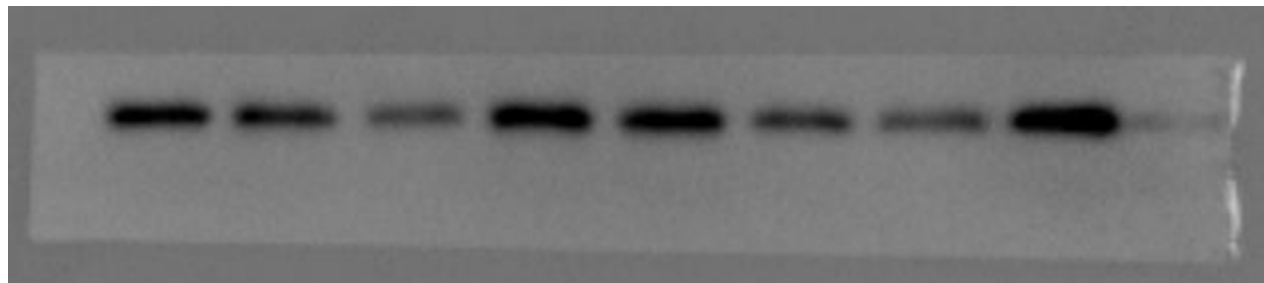
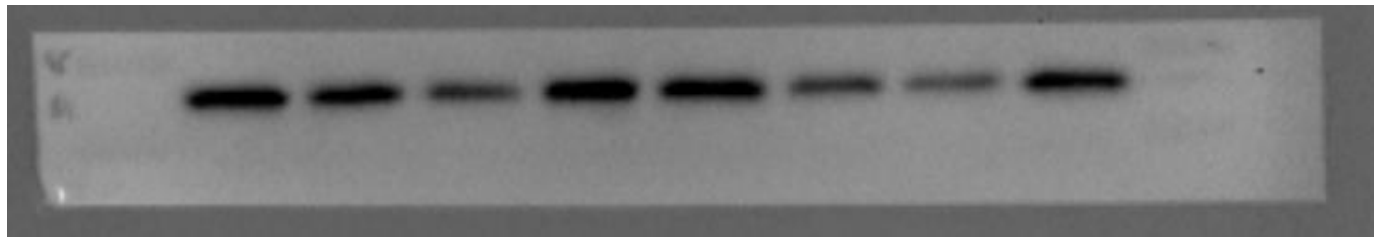
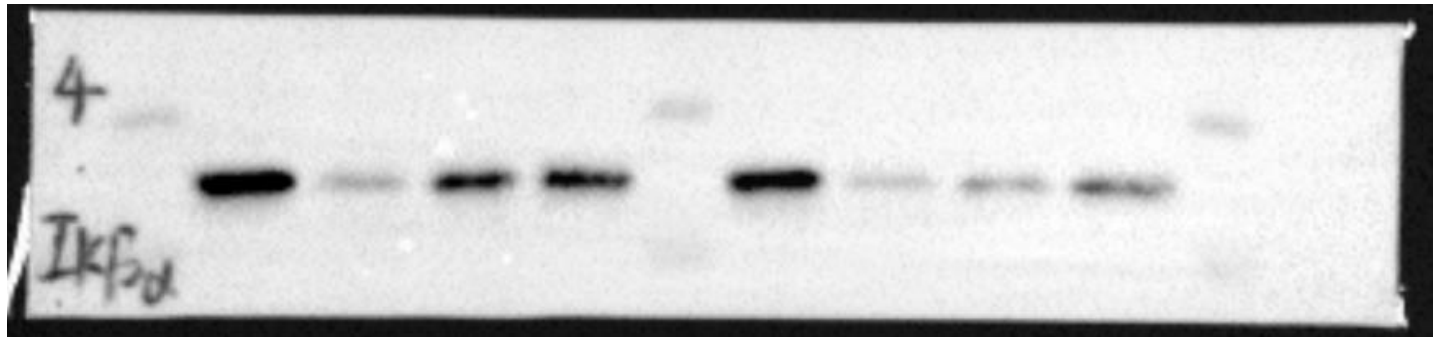
sh-Con+RANKL

Sh-MagI+RANKL

0 15 30 60

0 15 30 60 (min)

I κ B α



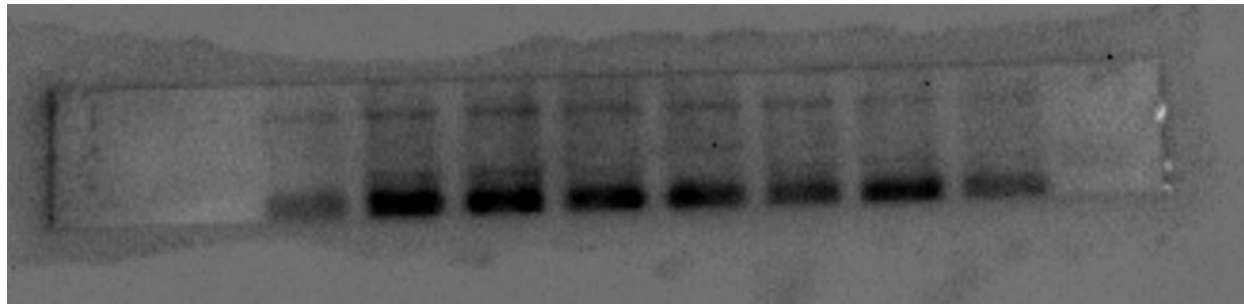
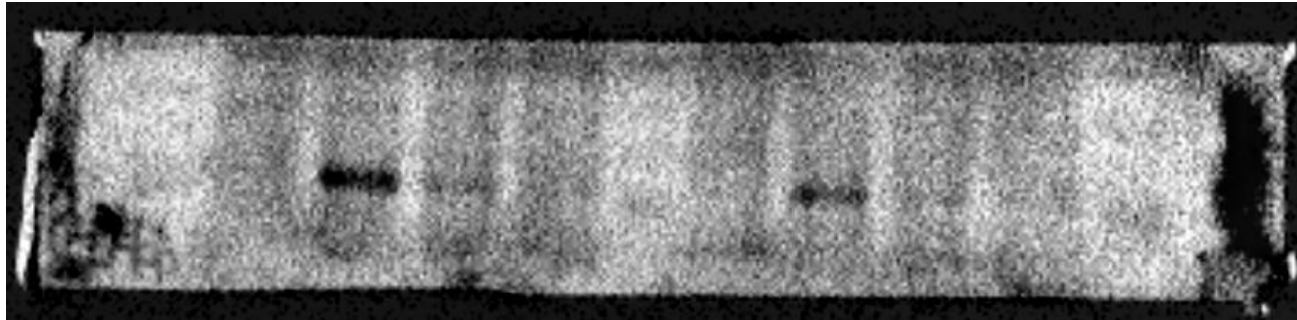
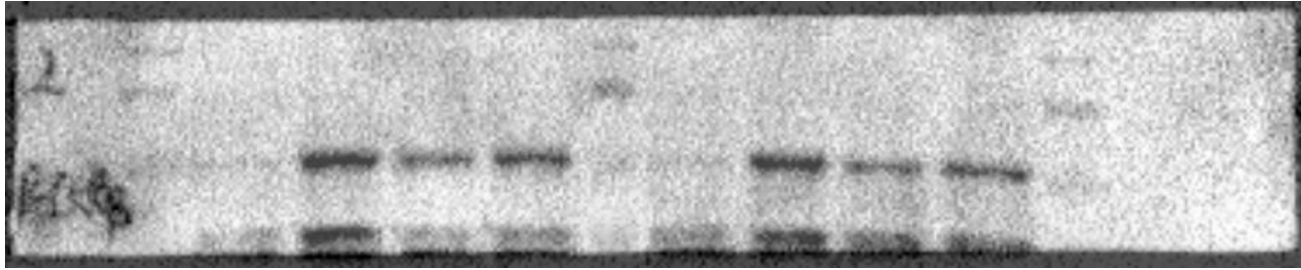
sh-Con+RANKL

Sh-Magl+RANKL

P-IKK β

0 15 30 60

0 15 30 60 (min)

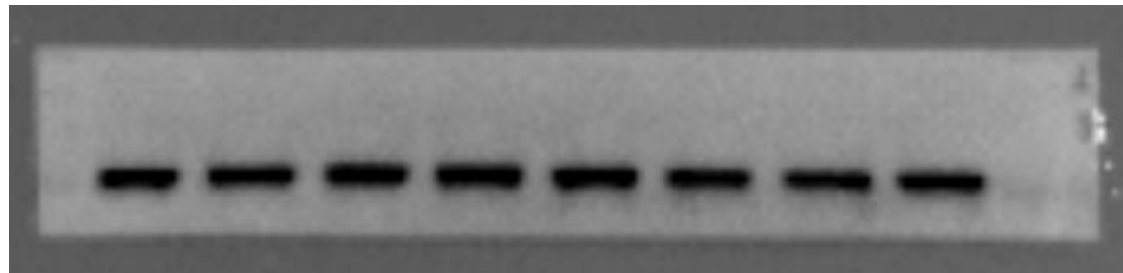
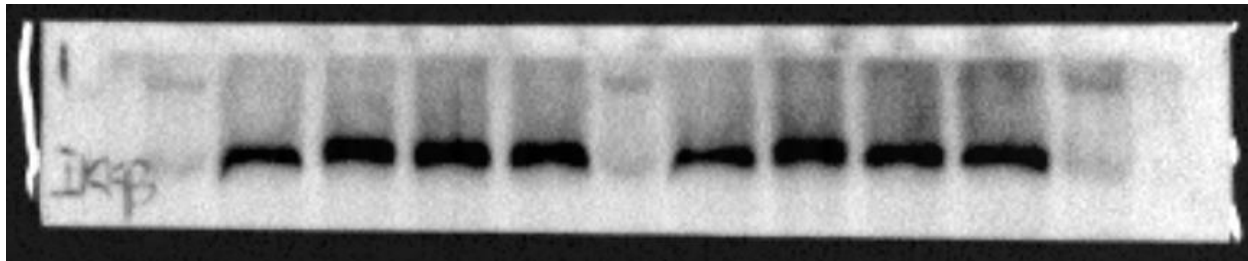
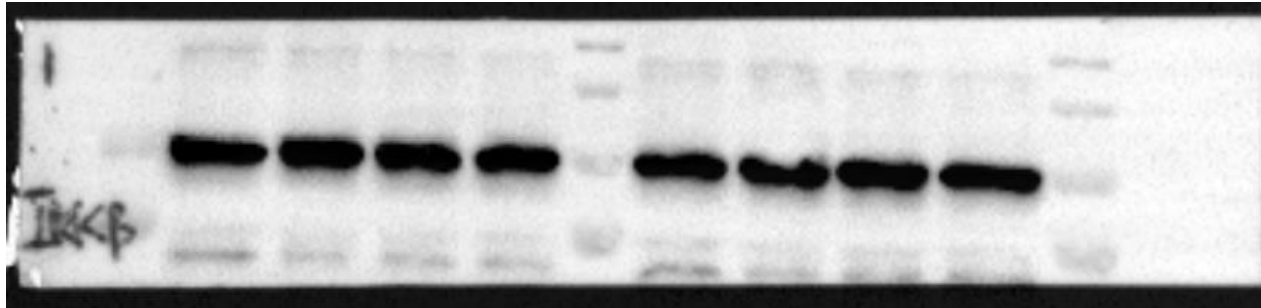


sh-Con+RANKL

Sh-MagI+RANKL

IKK β

0 15 30 60 0 15 30 60 (min)



RANKL

Sh-CON

Sh-CON

Sh-MAGL

Sh-MAGL

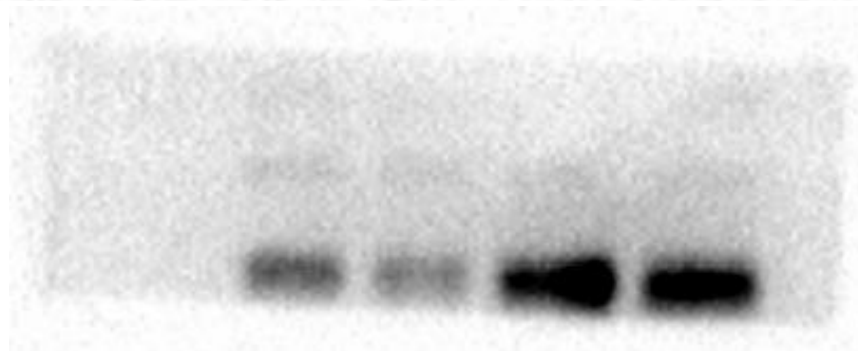
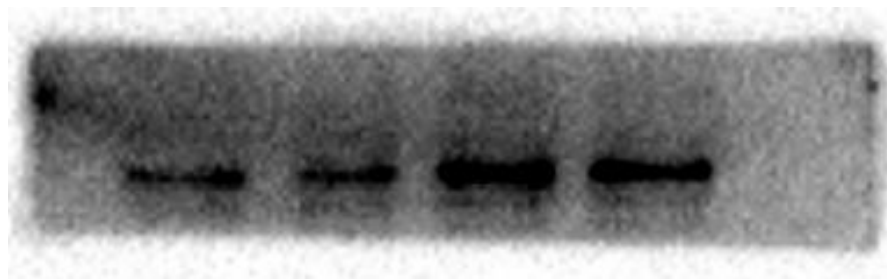
-

-

+

+

CNN1



RANKL(75ng/ml)

JZL(μ M)

—

—

4

10

20

CNN1

