**A**

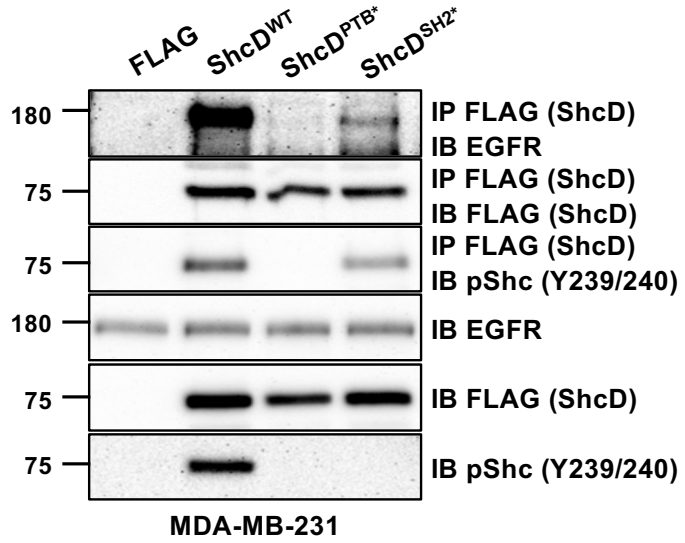
```
                                                                R67
SHC4  TLR---SRQDRHFLQHLLGMGMNYCVRYMGCVEVLQSMRSLDFGMRTQVTREAISRLC 226
SHC1  SFVNKPTRGWLHPNDKVMGPGVSYLVRYMGCVEVLQSMRALDFNTRTQVTREAISLVC 86

SHC4  EAVPGANGAIKKRKPPVEFLSTVLGKSNLQFSGMNIKLTISTCSLTLMNLDNQQIIAN 284
SHC1  EAVPGAKGATRRRKPCSRPLSSILGRSNLKFAGMPITLTVSTSSLNLMAADCKQIIAN 144

                                K169    R175                    F202
SHC4  HHMQSISFASGGDPDTTDYVAYVAKDPVNQRACHILECHNGMAQDVISTIGQAFELRF 342
SHC1  HHMQSISFASGGDPDTAEYVAYVAKDPVNQRACHILECPEGLAQDVISTIGQAFELRF 202

SHC4  KQYLKNPSLNTSCESE-----EVHIDSHAEEREDHEYYNEIPGKQPPVGGVSDMRIKV 395
SHC1  KQYLRNPPKLVTPHDRMAGFDGSAWDEEEEEPPDHQYYNDFPGKEPPLGGVVDMRLRE 260
```

**B**




Supp Figure 4