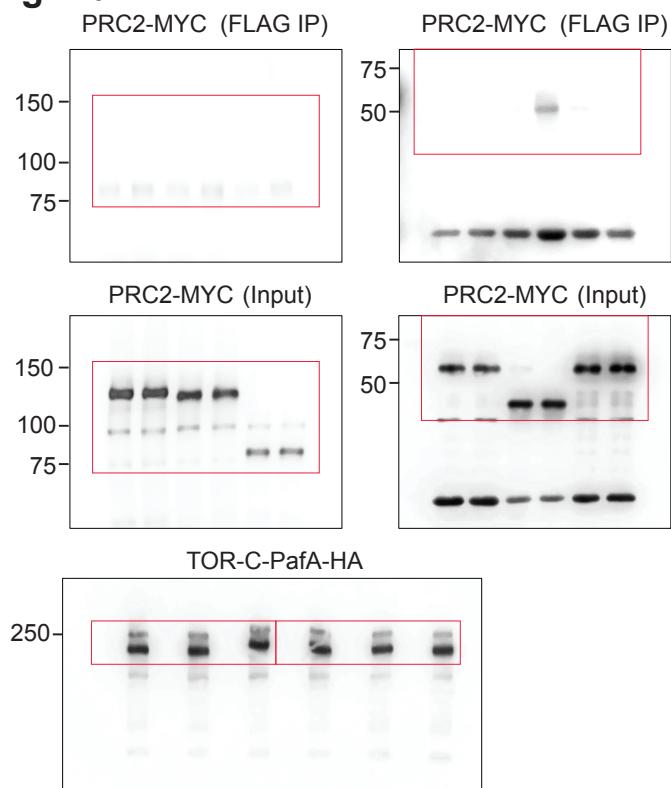
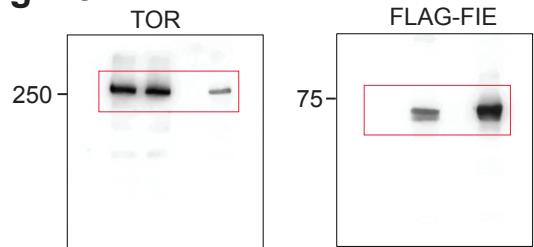
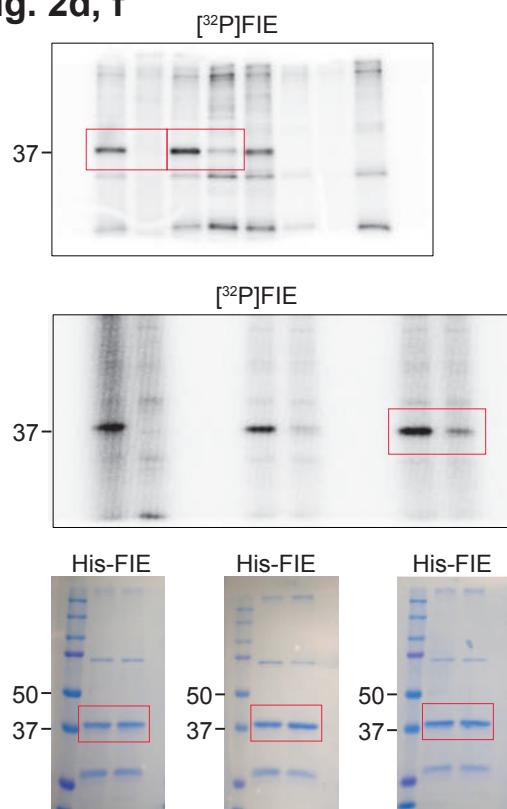
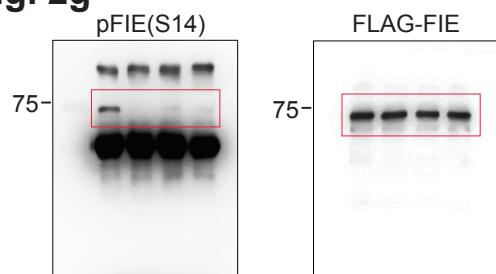
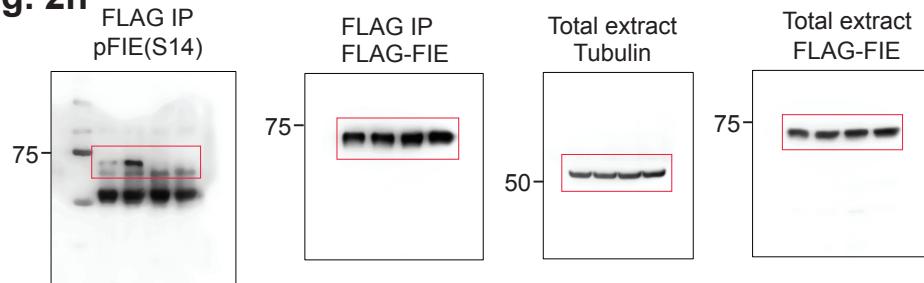


Uncropped gel images for Fig. 1a, b d, e, g

**Fig. 2b****Fig. 2c****Fig. 2d, f****Fig. 2g****Fig. 2h**

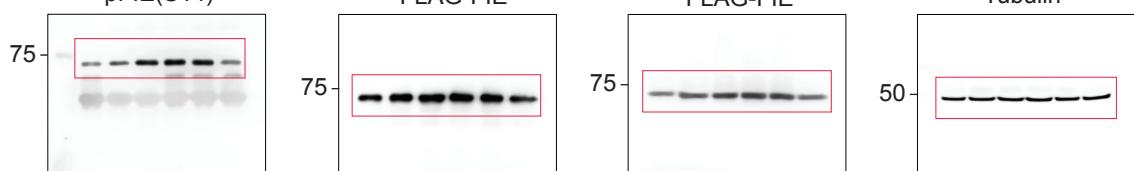
Uncropped gel images for Fig. 2b, c, d, f, g, h

Page 2

**Fig. 4b** Ctrl S6K1-HA

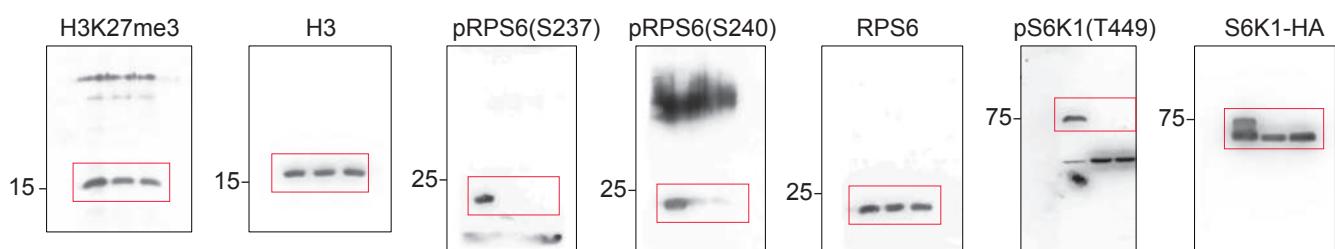
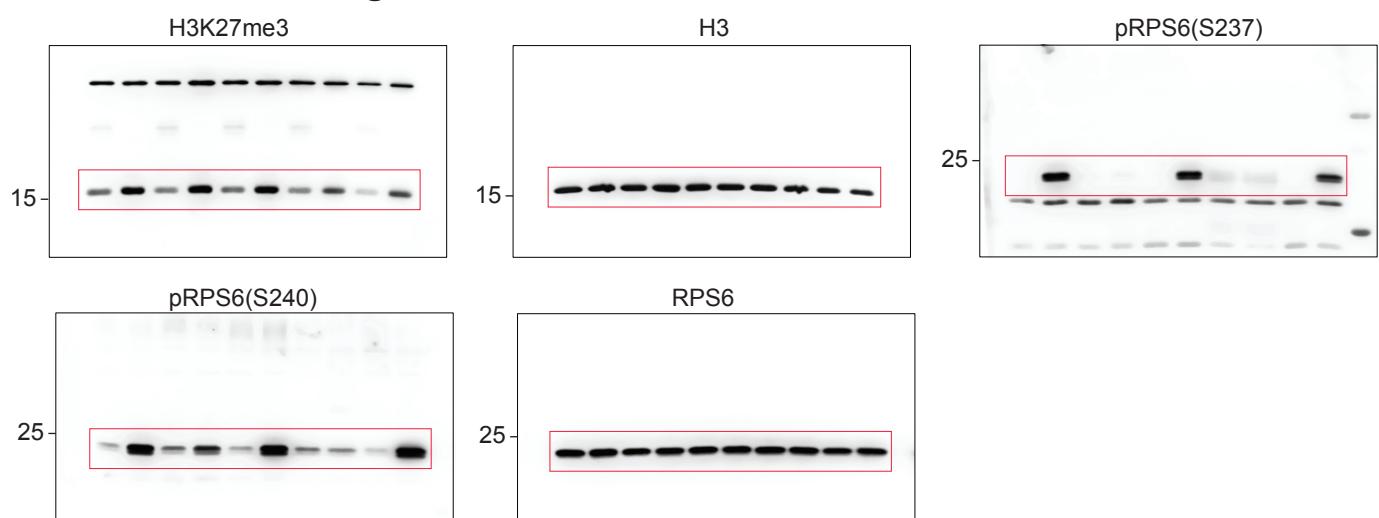
Torin2 S6K1-HA

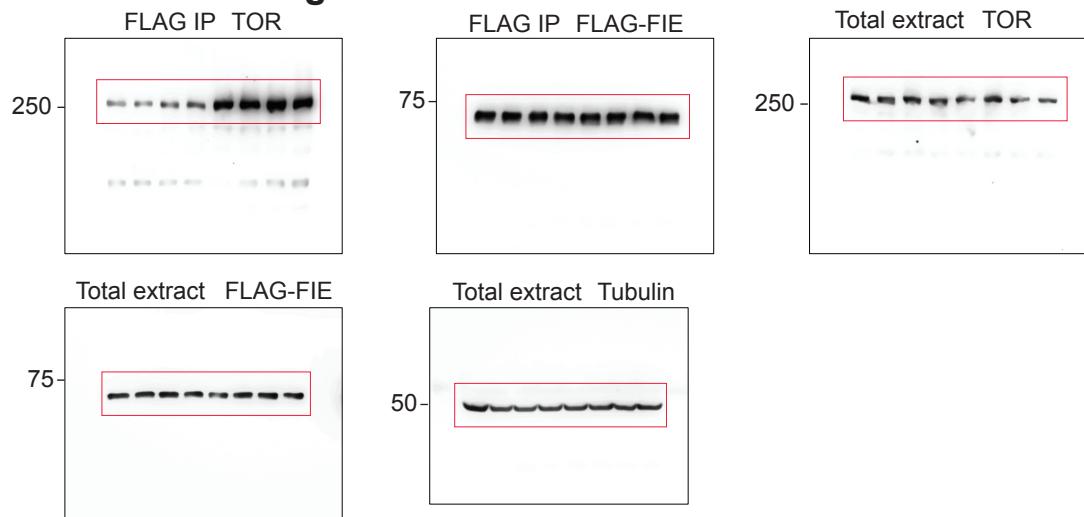
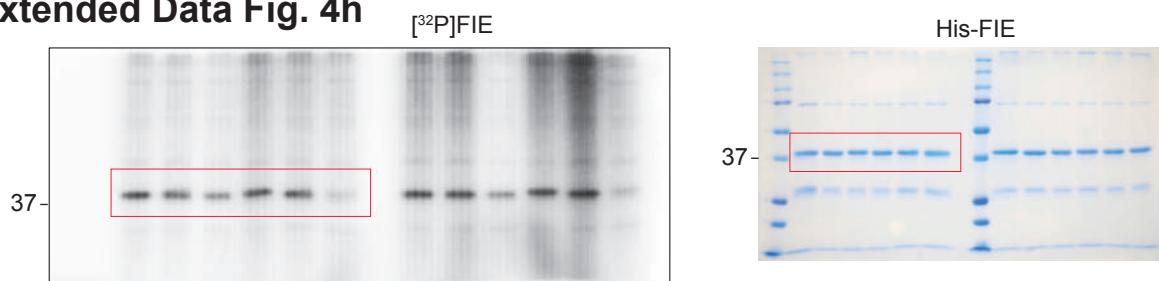
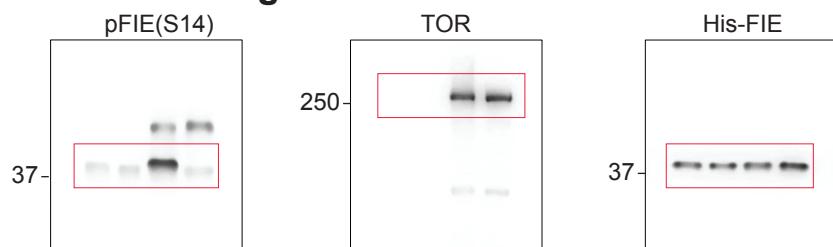
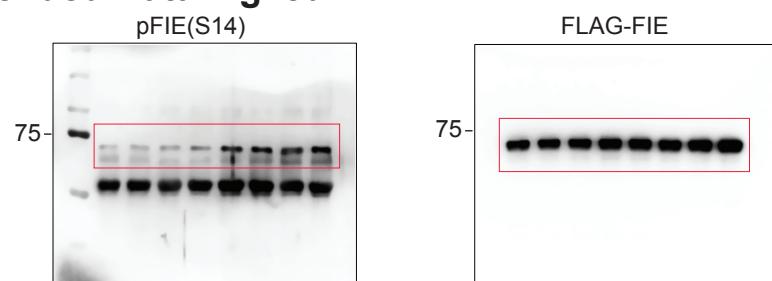
INK128 S6K1-HA

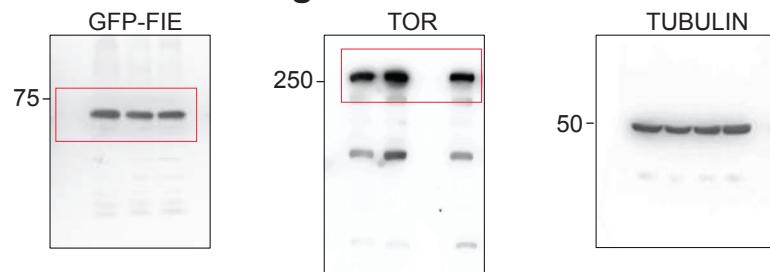
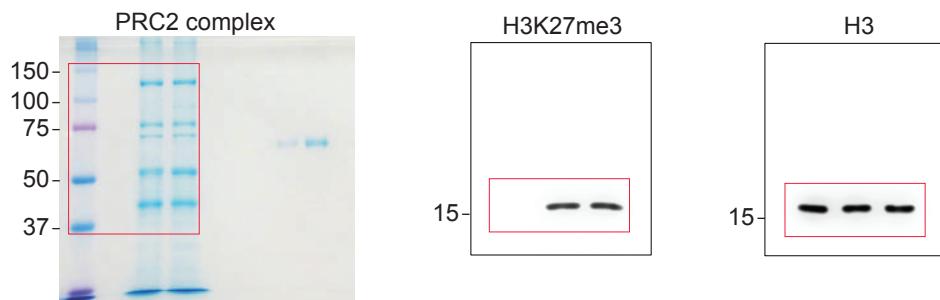
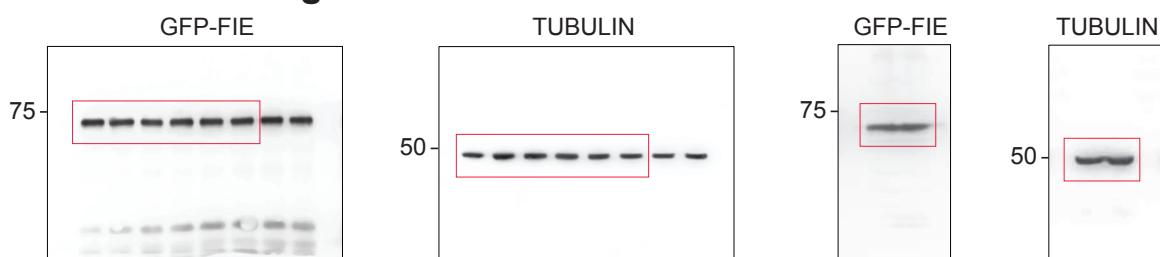
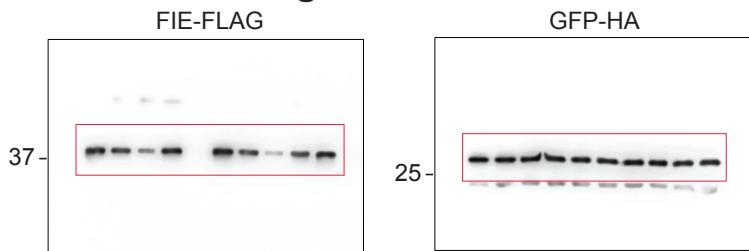
**Fig. 4h** FLAG IP pFIE(S14)FLAG IP  
FLAG-FIETotal extract  
FLAG-FIETotal extract  
Tubulin**Extended Data Fig. 1e**

H3K27me3

H3

**Extended Data Fig. 2a****Extended Data Fig. 2e**

**Extended Data Fig. 3c****Extended Data Fig. 4a****Extended Data Fig. 4h****Extended Data Fig. 5c****Extended Data Fig. 5d**

**Extended Data Fig. 5e****Extended Data Fig. 5f****Extended Data Fig. 6e****Extended Data Fig. 7a****Extended Data Fig. 7c****Extended Data Fig. 7e**