Fig. 5A





Whole membrane for Fig. 5A and Extended Data Fig 5B

SET2 Probed for DYRK1A HEL 1B12 WT 1A5 WT 11H1 14B5 100 kDa → DYRK1A 70 kDa → 50 kDa -

Whole membrane for Fig. 5A and Extended Data Fig 5B

Probed for HSC70 Alexa 790



Fig. 5C



1 0.50 0.24



Whole membrane for Fig. 5C

Probed for DYRK1A



Whole membrane for Fig. 5C

Probed for HSC70 Alexa 790



Extended Data Fig 5D



Whole membrane for Extended Data Fig 5D

Probed for DYRK1A

SET2 scr sh1 sh2



Lanes used for another experiment not used in this study Whole membrane for Extended Data Fig 5D

Probed for Beta-actin Alexa 790



Lanes used for another experiment not used in this study



Extended Data Fig 5G



Extended Data Fig 5G





Upper part of the same membrane was probed for total STAT3



Upper part of the same membrane was stripped and then probed for pSTAT3-Y705



Lower part of the same membrane was probed for pSTAT3-Y705

