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RNF2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RNF2.
Catalog # AT3672a

Product Information

Application	WB, E
Primary Accession	Q99496
Other Accession	NM_007212
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6C2
Calculated MW	37655

Additional Information

Gene ID	6045
Other Names	E3 ubiquitin-protein ligase RING2, 632-, Huntingtin-interacting protein 2-interacting protein 3, HIP2-interacting protein 3, Protein DinG, RING finger protein 1B, RING1b, RING finger protein 2, RING finger protein BAP-1, RNF2, BAP1, DING, HIPI3, RING1B
Target/Specificity	RNF2 (NP_009143, 192 a.a. ~ 290 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	RNF2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

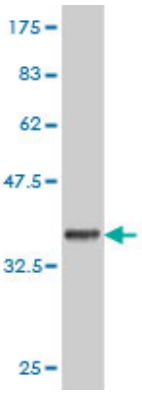
Background

Polycomb group (PcG) of proteins form the multiprotein complexes that are important for the transcription repression of various genes involved in development and cell proliferation. The protein encoded by this gene is one of the PcG proteins. It has been shown to interact with, and suppress the activity of, transcription factor CP2 (TFCP2/CP2). Studies of the mouse counterpart suggested the involvement of this gene in the specification of anterior-posterior axis, as well as in cell proliferation in early development. This protein was also found to interact with huntingtin interacting protein 2 (HIP2), an ubiquitin-conjugating enzyme, and possess ubiquitin ligase activity.

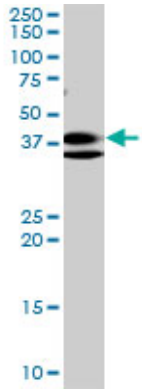
References

1.Scmh1 Has E3 Ubiquitin Ligase Activity for Geminin and Histone H2A and Regulates Geminin Stability Directly or Indirectly via Transcriptional Repression of Hoxa9 and Hoxb4.Yasunaga S, Ohtsubo M, Ohno Y, Saeki K, Kurogi T, Tanaka-Okamoto M, Ishizaki H, Shirai M, Mihara K, Brock HW, Miyoshi J, Takihara Y.Mol Cell Biol. 2013 Feb;33(4):644-60. doi: 10.1128/MCB.00974-12.2.Inaugural Article: Distinct histone modifications in stem cell lines and tissue lineages from the early mouse embryo.Rugg-Gunn PJ, Cox BJ, Ralston A, Rossant J.Proc Natl Acad Sci U S A. 2010 May 17. [Epub ahead of print]3.Polycomb-group complex 1 acts as an E3 ubiquitin ligase for Geminin to sustain hematopoietic stem cell activity.Ohtsubo M, Yasunaga S, Ohno Y, Tsumura M, Okada S, Ishikawa N, Shirao K, Kikuchi A, Nishitani H, Kobayashi M, Takihara Y.Proc Natl Acad Sci U S A. 2008 Jul 29;105(30):10396-401. Epub 2008 Jul 23.

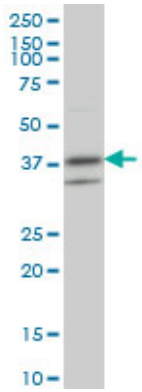
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



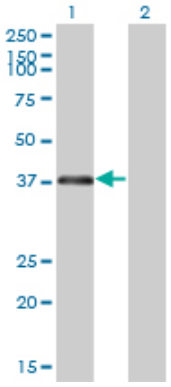
RNF2 monoclonal antibody (M01), clone 6C2. Western Blot analysis of RNF2 expression in Raw 264.7 ((Cat # AT3672a)

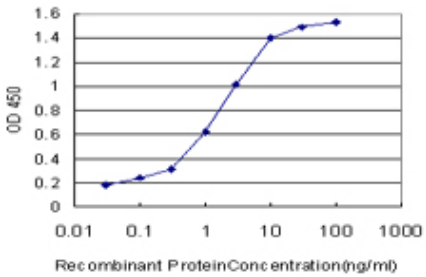


RNF2 monoclonal antibody (M01), clone 6C2 Western Blot analysis of RNF2 expression in NIH/3T3 ((Cat # AT3672a)

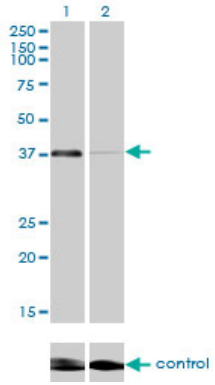
Western Blot analysis of RNF2 expression in transfected 293T cell line by RNF2 monoclonal antibody (M01), clone 6C2.

Lane 1: RNF2 transfected lysate(37.7 KDa).
Lane 2: Non-transfected lysate.





Detection limit for recombinant GST tagged RNF2 is approximately 0.03ng/ml as a capture antibody.



Western blot analysis of RNF2 over-expressed 293 cell line, cotransfected with RNF2 Validated Chimera RNAi ((Cat # AT3672a)