

#4400 Store at -20°C

# MIB1 Antibody



✓ 100 µl  
(10 western blots)

**Orders** ■ 877-616-CELL (2355)  
orders@cellsignaling.com  
**Support** ■ 877-678-TECH (8324)  
info@cellsignaling.com  
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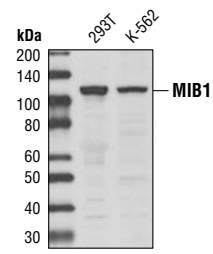
rev. 09/10/10

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

**Entrez-Gene ID** #57534  
**Swiss-Prot Acc.** #Q86YT6

| Applications | Species Cross-Reactivity* | Molecular Wt. | Source   |
|--------------|---------------------------|---------------|----------|
| W            | H                         | 110 kDa       | Rabbit** |
| Endogenous   |                           |               |          |

**Background:** Mindbomb homolog 1 (MIB1) is an E3 ligase that facilitates the ubiquitination and the subsequent endocytosis of the Notch ligands, Delta and Jagged (1,2). MIB1 appears to promote the ubiquitination and degradation of death-associated protein kinase (DAPK1) *in vitro* (3). Expression of MIB1 is seen in both adult and embryonic murine tissues (4). Recently, MIB1 was reported to regulate the extrinsic cell death pathway by binding to cellular FLICE-like inhibitory proteins (cFLIP-L and cFLIP-S), which reduces the interaction of caspase-8 with cFLIP and leads to cell death (5). MIB1 is also involved in T and marginal zone B (MZB) cell development in the lymphopoietic niches (6).



Western blot analysis of extracts from 293T and K-562 cells using MIB1 Antibody.

**Specificity/Sensitivity:** MIB1 Antibody detects endogenous levels of total MIB1 protein. This antibody does not recognize the Ki-67 (MK167) protein.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human MIB1 protein. Antibodies were purified by protein A and peptide affinity chromatography.

**Background References:**

- (1) Koo, B.K. et al. (2005) *Development* 132, 3459-70.
- (2) Matsuda, M. and Chitnis, A.B. (2009) *Development* 136, 197-206.
- (3) Zhang, L. et al. (2007) *J Biol Chem* 282, 11795-804.
- (4) Jin, Y. et al. (2002) *J Biol Chem* 277, 46980-6.
- (5) Zhang, L. and Gallagher, P.J. (2009) *Am J Physiol Cell Physiol* 297, C1275-83.
- (6) Song, R. et al. (2008) *J Exp Med* 205, 2525-36.

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**\*Species cross-reactivity is determined by western blot.**

**\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.**

**Recommended Antibody Dilutions:**

Western blotting 1:1000

**For application specific protocols please see the web page for this product at [www.cellsignaling.com](http://www.cellsignaling.com).**

**Please visit [www.cellsignaling.com](http://www.cellsignaling.com) for a complete listing of recommended companion products.**

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine  
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse AI—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.