

# Mib1/Mindbomb Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2172a

## Product Information

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<b>Application</b>	IF, IHC-P, WB, E
<b>Primary Accession</b>	<a href="#">Q86YT6</a>
<b>Other Accession</b>	<a href="#">Q6GNY1</a> , <a href="#">Q80SY4</a> , <a href="#">Q804S5</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Zebrafish, Mouse, Xenopus
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	110136
<b>Antigen Region</b>	13-42

## Additional Information

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<b>Gene ID</b>	57534
<b>Other Names</b>	E3 ubiquitin-protein ligase MIB1, 632-, DAPK-interacting protein 1, DIP-1, Mind bomb homolog 1, Zinc finger ZZ type with ankyrin repeat domain protein 2, MIB1, DIP1, KIAA1323, ZZANK2
<b>Target/Specificity</b>	This Mib1/Mindbomb antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 13-42 amino acids from the N-terminal region of human Mib1/Mindbomb.
<b>Dilution</b>	IF~~1:20~100 IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Mib1/Mindbomb Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MIB1
<b>Synonyms</b>	DIP1, KIAA1323, ZZANK2

<b>Function</b>	E3 ubiquitin-protein ligase that mediates ubiquitination of Delta receptors, which act as ligands of Notch proteins. Positively regulates the Delta-mediated Notch signaling by ubiquitinating the intracellular domain of Delta, leading to endocytosis of Delta receptors. Probably mediates ubiquitination and subsequent proteasomal degradation of DAPK1, thereby antagonizing anti-apoptotic effects of DAPK1 to promote TNF-induced apoptosis (By similarity). Involved in ubiquitination of centriolar satellite CEP131, CEP290 and PCM1 proteins and hence inhibits primary cilium formation in proliferating cells. Mediates 'Lys-63'-linked polyubiquitination of TBK1, which probably participates in kinase activation.
<b>Cellular Location</b>	Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Cell membrane. Note=Localizes to the plasma membrane (By similarity) According to PubMed:15048887, it is mitochondrial, however such localization remains unclear. Displaced from centriolar satellites in response to cellular stress, such as ultraviolet light (UV) radiation or heat shock.
<b>Tissue Location</b>	Widely expressed at low level. Expressed at higher level in spinal cord, ovary, whole brain, and all specific brain regions examined.

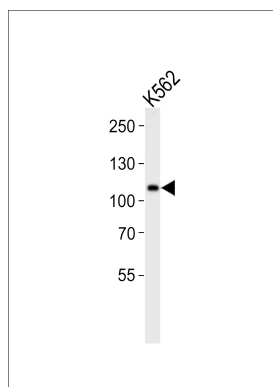
## Background

MIB is an E3 ubiquitin-protein ligase that mediates ubiquitination of Delta receptors, which act as ligands of Notch proteins. This protein positively regulates the Delta-mediated Notch signaling by ubiquitinating the intracellular domain of Delta, leading to endocytosis of Delta receptors. MIB probably mediates ubiquitination and subsequent proteasomal degradation of DAPK1, thereby antagonizing anti-apoptotic effects of DAPK1 to promote TNF-induced apoptosis.

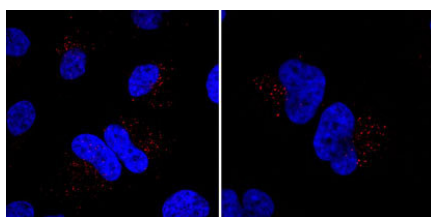
## References

Itoh, M., et al., Dev. Cell 4(1):67-82 (2003).  
Jin, Y., et al., J. Biol. Chem. 277(49):46980-46986 (2002).

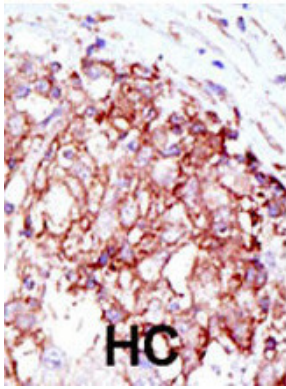
## Images



MIB Antibody (K28) (Cat. #AP2172a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the MIB antibody detected the MIB protein (arrow).



Immunofluorescent staining of HeLa cells incubated with MIB Antibody (N-term) (Cat # AP2172a) at a dilution of 1:20. Data courtesy of Dr. Vyacheslav Akimov, University of Southern Denmark.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.