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Mib1/Mindbomb Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP2172b

Specification

Mib1/Mindbomb Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q86YT6

Mib1/Mindbomb Antibody (C-term) Blocking peptide - Additional Information

Gene ID 57534

Other Names
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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2172b was selected from the C-term region of human MIB . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mib1/Mindbomb Antibody (C-term) Blocking peptide - Protein Information

Name MIB1

Synonyms DIP1, KIAA1323, ZZANK2

Function
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.

Cellular Location
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.

Tissue Location
Widely expressed at low level. Expressed at higher level in spinal cord, ovary, whole brain, and all specific brain regions examined.

Mib1/Mindbomb Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Mib1/Mindbomb Antibody (C-term) Blocking peptide - Images

Mib1/Mindbomb Antibody (C-term) Blocking peptide - Background

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

Mib1/Mindbomb Antibody (C-term) Blocking peptide - References

Itoh M, et al. Dev. Cell 2003. 4: 67.