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KD-Validated Anti-MIB1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2219

Specification

KD-Validated Anti-MIB1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q86YT6
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 110 kDa; observed, 100 kDa KDa**
Gene Name	**MIB1**
Aliases	**MIB1; MIB E3 Ubiquitin Protein Ligase 1; ZZANK2; DIP-1; DAPK-Interacting Protein 1; KIAA1323; ZZZ6; MIB; Zinc Finger ZZ Type With Ankyrin Repeat Domain Protein; RING-Type E3 Ubiquitin Transferase MIB1; E3 Ubiquitin-Protein Ligase MIB1; DIP1; Mindbomb E3 Ubiquitin Protein Ligase 1; Mindbomb Homolog 1 (Drosophila); Ubiquitin Ligase Mind Bomb; Mind Bomb Homolog 1; EC 2.3.2.27; EC 6.3.2; LVNC7**
Immunogen	**A synthesized peptide derived from human MIB1**

KD-Validated Anti-MIB1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**57534**

Other Names
E3 ubiquitin-protein ligase MIB1, 2.3.2.27, DAPK-interacting protein 1, DIP-1, Mind bomb homolog 1, RING-type E3 ubiquitin transferase MIB1, Zinc finger ZZ type with ankyrin repeat domain protein 2, MIB1, DIP1, KIAA1323, ZZANK2

KD-Validated Anti-MIB1 Rabbit Monoclonal Antibody - 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.

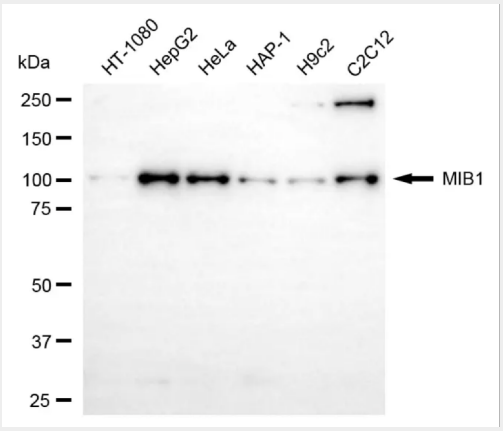
Tissue Location
Widely expressed at low level. Expressed at higher level in spinal cord, ovary, whole brain, and all specific brain regions examined.

KD-Validated Anti-MIB1 Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-MIB1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-MIB1 antibody (Cat#AGI2219). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MIB1 antibody (Cat#AGI2219, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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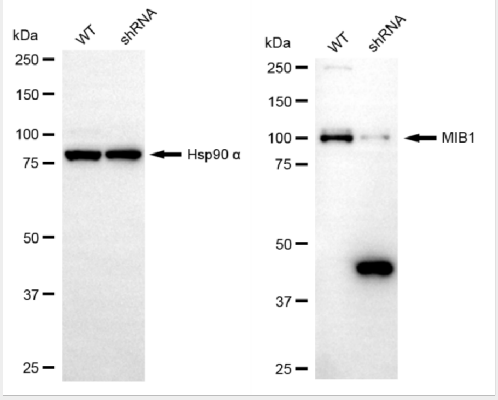
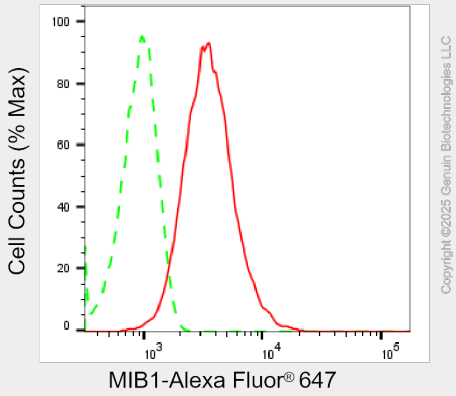


Western blotting analysis using anti-MIB1 antibody (Cat#AGI2219). MIB1 expression in wild-type (WT) and MIB1 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-MIB1 antibody (Cat#AGI2219, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of MIB1 expression in HepG2 cells using anti-MIB1 antibody (Cat#AGI2219, 1:2,000). Green, isotype control; red, MIB1.