Human Mind Bomb 2/MIB2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 739505

Catalog Number: MAB72891

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Mind Bomb 2/MIB2 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 739505
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Mind Bomb 2/MIB2 Ala418-Lys520 Accession # Q96AX9
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

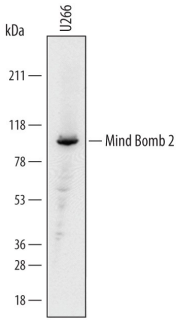
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA

Western Blot



Detection of Human Mind Bomb 2/MIB2 by Western Blot. Western blot shows lysates of U266 human myeloma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Mind Bomb 2/MIB2 Monoclonal Antibody (Catalog # MAB72891) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Mind Bomb 2/MIB2 at approximately 103-110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

MIB-2 (Mind Bomb-2), also called skeletrophin, is a widely expressed, 1013 amino acid (aa) cytoplasmic phosphoprotein that is an E3 ubiquitin ligase for Notch ligands such as Jagged-2. It contains two MIB/HERC2 domains surrounding a ZZ-type zinc finger (aa 59-285), an ankyrin repeat domain (aa 522-856), and two RING-type zinc fingers that have E3 ubiquitin ligase activity (aa 890-1002). If short gaps in the protein sequence are ignored, human MIB-2 (aa 418-520) shares 95% and 92% aa identity with mouse and rat MIB-2, respectively. Eight alternately spliced isoforms of 672-1009 aa lack various sequences, but all contain aa 418-520. MIB-2 has been detected as a 70 kDa form in skeletal muscle, binds actin, and is downregulated in malignant melanoma.

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