

## DESCRIPTION

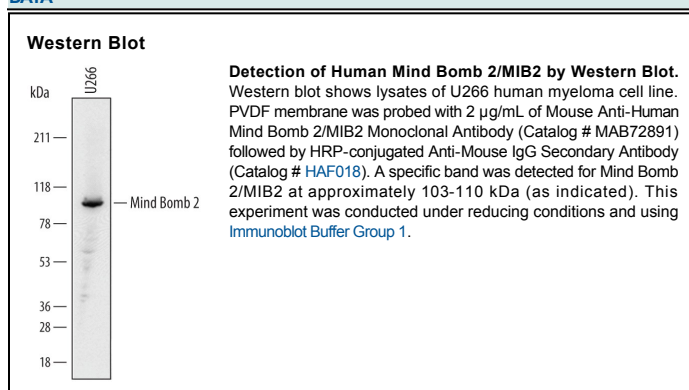
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Mind Bomb 2/MIB2 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 739505
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Mind Bomb 2/MIB2 Ala418-Lys520 Accession # Q96AX9
<b>Formulation</b>	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
<b>Western Blot</b>	2 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.