

#### 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<br>Ala418-Lys520<br>Accession # Q96AX9                                                                                                                                                                           |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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.

#### PRODUCT SPECIFIC NOTICES

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