

## DESCRIPTION

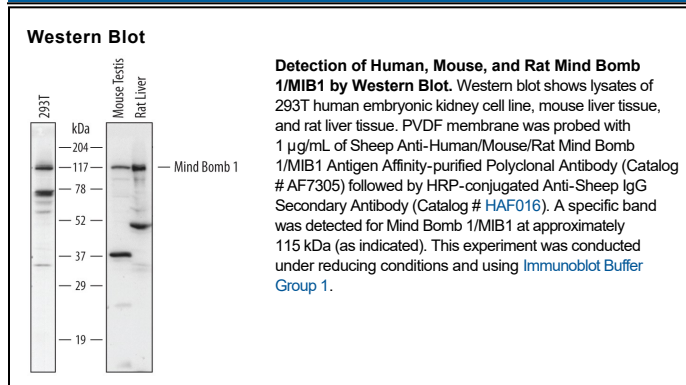
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse and rat Mind Bomb 1/MIB1 in Western blots and detects recombinant human Mind Bomb 1/MIB1 in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant MIB2 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Mind Bomb 1/MIB1 Thr365-Gln461 Accession # Q86YT6
<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 either lyophilized or 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>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 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

MIB1 (Mind bomb 1; also DIP-1 and ZZANK2) is a 110-115 kDa E3 ubiquitin ligase. It is widely expressed in both embryo and adult, and appears to have a non-redundant role in Notch receptor signaling. Notch signaling is initiated when a transmembrane (TM) Notch ligand (Jagged or Delta) binds to Notch on an adjacent cell. This ligation induces cleavage of the Notch extracellular domain (ECD) with the creation of a Jagged/Delta:NotchECD complex. This complex is now internalized by the Notch ligand-expressing cell. The displacement of the NotchECD from its TM segment promotes further Notch processing, resulting in Notch signaling. The key internalization step by the ligand-expressing cell is mediated by the MIB1 E3 ubiquitin ligase. Human MIB1 is 1006 amino acids (aa) in length. It contains multiple interspersed Ankyrin repeats, MIB domains, and zinc-finger motifs. There is one potential alternative start site at Met84. Over aa 365-461, human MIB1 shares 99% aa sequence identity with mouse MIB1.