

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	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.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Mind Bomb 1/MIB1 Thr365-Gln461 Accession # Q86YT6
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.