Human/Mouse/Rat Mind Bomb 1/MIB1 Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7305R
100 µg

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	*E. coli*-derived recombinant human Mind Bomb 1/MIB1 Thr365-Gln461 Accession # Q86YT6
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

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