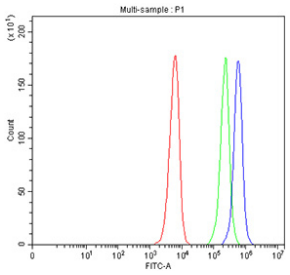
MIB2 Antibody / Mindbomb 2 (RQ8879)

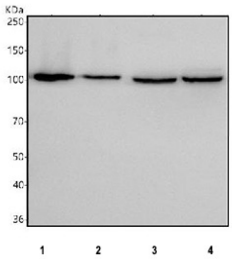
Catalog No.	Formulation	Size
RQ8879	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

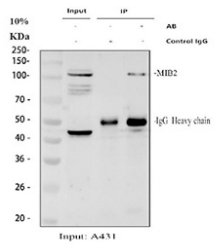
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q96AX9
Localization	Cytoplasm
Applications	Western blot: 0.5-1 ug/ml Flow cytometry: 1-3ug/ml Immunoprecipitation: 2ug per 500ug of lysate
Limitations	This MIB2 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human SiHa cells with MIB2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MIB2 antibody.



Western blot testing of human 1) A431, 2) HaCaT, 3) SiHa and 4) PC-3 cell lysate with MIB2 antibody. Predicted molecular weight ~110 kDa.



Immunoprecipitation of MIB2 protein from 500ug of human A431 whole cell lysate with 2ug of MIB2 antibody.

Description

MIB2 (Mindbomb 2) is a RING-type E3 ubiquitin ligase that regulates membrane protein turnover and signal transduction, most notably within the Notch pathway. By catalyzing ubiquitination of Delta-like ligands, MIB2 promotes their endocytosis and activation competence, ensuring proper receptor engagement and downstream transcriptional responses. Through these activities, MIB2 helps coordinate cellÃ¢Â€Â“cell communication during development and tissue homeostasis.

Beyond canonical Notch signaling, MIB2 has been implicated in cytoskeletal organization and broader ubiquitin-mediated quality control. Altered MIB2 expression or activity can influence cell fate decisions, neural and immune system function, and tumor biology, where disrupted ligand trafficking and signaling balance contribute to disease phenotypes. Its functional overlap and divergence relative to the paralog MIB1 highlight MIB2 as a distinct regulator with tissue- and context-specific roles.

The MIB2 antibody enables specific detection of endogenous MIB2 in cells and tissues for applications including western blot, immunofluorescence, and immunohistochemistry. Researchers use the MIB2 antibody to quantify expression, assess subcellular localization at membranes and endosomes, and monitor pathway modulation under genetic or pharmacologic perturbations. With high specificity and consistent performance, the MIB2 antibody supports studies of ubiquitin signaling, Notch pathway regulation, and disease mechanisms.

Application Notes

Optimal dilution of the MIB2 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids A71-I572) was used as the immunogen for the MIB2 antibody.

Storage

After reconstitution, the MIB2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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