

For Research Use Only

MIB1 Recombinant monoclonal antibody

Catalog Number: 83718-5-RR



Basic Information

Catalog Number:

83718-5-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2507

GenBank Accession Number:

BC022403

GeneID (NCBI):

57534

UNIPROT ID:

Q86YT6

Full Name:

mindbomb homolog 1 (Drosophila)

Calculated MW:

110 kDa

Observed MW:

110 kDa

Purification Method:

Protein A purification

CloneNo.:

240676E4

Recommended Dilutions:

WB: 1:2000-1:10000

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, DU 145 cells, HEK-293 cells, K-562 cells, C6 cells, mouse brain tissue, rat brain tissue

FC (Intra) : HeLa cells, SH-SY5Y cells

Background Information

MIB1(Mind bomb homolog 1) is an E3 ubiquitin-protein ligase that mediates ubiquitination of Delta receptors, which act as ligands of Notch proteins. MIB1, identified as an interactor of death associated protein kinase (DAPK), probably regulate apoptosis through ubiquitination and degradation of DAPK, thereby antagonizing anti-apoptotic effects of DAPK1 to promote TNF-induced apoptosis. MIB1 promotes proteasomal degradation of NRF2 and sensitizes lung cancer cells to ferroptosis(PMID: 34670864). In addition, MIB1 upregulates IQGAP1 and promotes pancreatic cancer progression by inducing ST7 degradation(PMID: 33793053).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

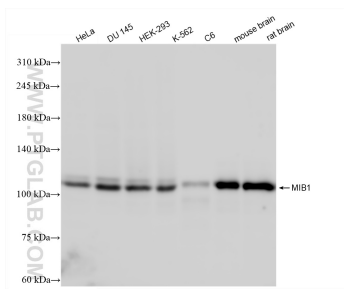
T: 4006900926

E: Proteintech-CN@ptglab.com

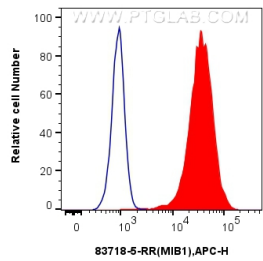
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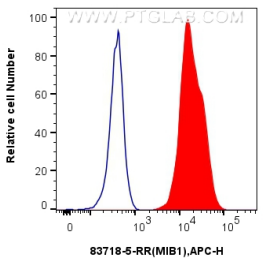
Selected Validation Data



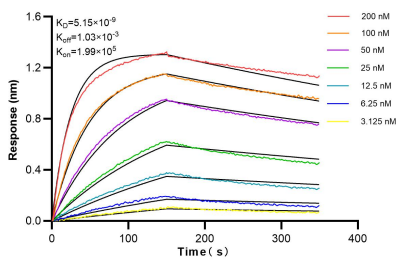
Various lysates were subjected to SDS PAGE followed by western blot with 83718-5-RR (MIB1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug MIB1 Recombinant antibody (83718-5-RR, Clone:240676E4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



1x10⁶ SH-SY5Y cells were intracellularly stained with 0.25 ug MIB1 Recombinant antibody (83718-5-RR, Clone:240676E4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Biolayer interferometry (BLI) kinetic assays of 83718-5-RR against Human MIB1 were performed. The affinity constant is 5.15 nM.