

For Research Use Only

PTPN18 Recombinant antibody

Catalog Number:83024-1-RR



Basic Information

Catalog Number:

83024-1-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG34048

GenBank Accession Number:

BC052800

GeneID (NCBI):

26469

UNIPROT ID:

Q99952

Full Name:

protein tyrosine phosphatase, non-receptor type 18 (brain-derived)

Calculated MW:

460 aa, 50 kDa

Observed MW:

48 kDa

Purification Method:

Protein A purification

CloneNo.:

230154G8

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : HEK-293 cells, HepG2 cells, MCF-7 cells, T-47D cells

Background Information

PTPN18 (also called PTP-HSCF or BDP1), a member of the protein tyrosine phosphatase superfamily, has been reported to be a tumor suppressor in breast cancer by dephosphorylating HER2 and suppressing cell proliferation and invasion. In addition to the well-established role of PTPN18 in breast cancer, our previous study found that PTPN18 and CSK cooperate to inhibit the events triggered by SRC kinases. (PMID: 35982039)

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

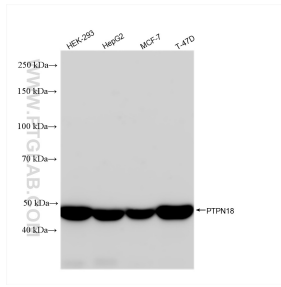
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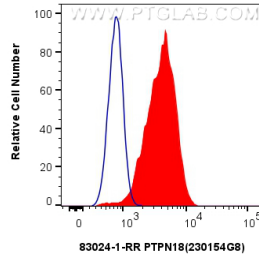
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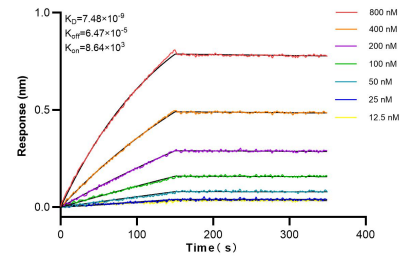
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83024-1-RR (PTPN18 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10⁶ HEK-293 cells were intracellularly stained with 0.25 ug PTPN18 Recombinant antibody (83024-1-RR, Clone:230154G8) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biacore interferometry (BLI) kinetic assays of 83024-1-RR against Human PTPN18 were performed. The affinity constant is 7.48 nM.