

For Research Use Only

# PTPN18 Recombinant antibody

Catalog Number: 83024-1-RR



## Basic Information

<b>Catalog Number:</b> 83024-1-RR	<b>GenBank Accession Number:</b> BC052800	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 26469	<b>CloneNo.:</b> 230154G8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99952	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> protein tyrosine phosphatase, non-receptor type 18 (brain-derived)	
<b>Immunogen Catalog Number:</b> AG34048	<b>Calculated MW:</b> 460 aa, 50 kDa	
	<b>Observed MW:</b> 48 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> 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

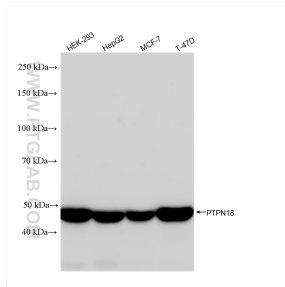
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

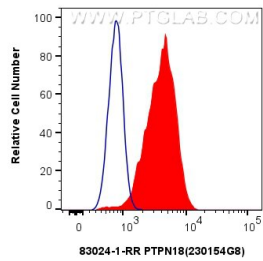
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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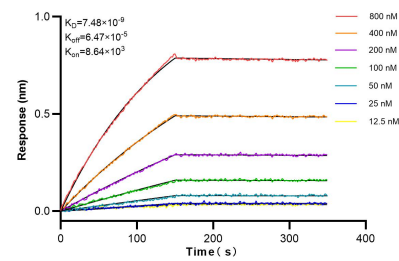
## Selected Validation Data



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.



1x10<sup>6</sup> 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).



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