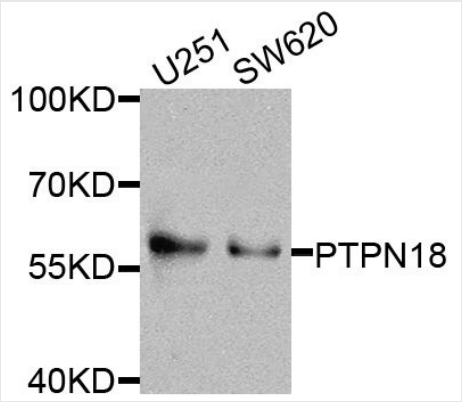
PTPN18 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTPN18, Polyclonal Antibody
Full Product Name	PTPN18 Polyclonal Antibody
Product Gene Name	anti-PTPN18 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	50kDa
OMIM	606587
3D Structure	ModBase 3D Structure for Q99952
Immunogen	Recombinant protein of human PTPN18
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PTPN18 antibody	Western Blot (WB)
Application Notes for anti-PTPN18 antibody	WB 1:500 - 1:2000
Related Product Information for anti-PTPN18 antibody	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, the mitotic cycle, and oncogenic transformation. This PTP contains a PEST motif, which often serves as a protein-protein interaction domain, and may be related to protein intracellular half-live. This protein can differentially dephosphorylate autophosphorylated tyrosine kinases that are overexpressed in tumor tissues, and it appears to regulate HER2, a member of the epidermal growth factor receptor family of receptor tyrosine kinases. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-PTPN18 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PTPN18 purchase	MBS9128300 is an antibody targeting PTPN18. Also known as PTPN18 Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PTPN18 antibody
Western blot analysis of extracts of various cell lines, using PTPN18 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 1s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTPN18. It may not necessarily be applicable to this product.

NCBI GI #	215277017
NCBI GeneID	26469
NCBI Accession #	NP_001135842.1
UniProt Primary Accession #	Q99952
UniProt Secondary Accession #	Q53P42; B4E1E6
UniProt Related Accession #	Q99952
GenBank Nucleotide #	NM_001142370.1
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 18 isoform 2
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 18 (brain-derived)
NCBI Official Symbol	PTPN18
NCBI Official Synonym Symbols	BDP1; PTP-HSCF
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 18
UniProt Synonym Protein Names	Brain-derived phosphatase
Protein Family	Tyrosine-protein phosphatase non-receptor
UniProt Gene Name	PTPN18
UniProt Synonym Gene Names	BDP1
UniProt Entry Name	PTN18_HUMAN
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 18

UniProt Comments for PTPN18	BDP1: a member of the non-receptor protein tyrosine phosphatase (PTP) family. Contains a PEST motif, which often serves as a protein-protein interaction domain, and may be related to protein intracellular half-live. This gene was found to be expressed in brain, colon tissues, and several different tumor-derived cell lines. Protein type: Protein phosphatase, tyrosine (non-receptor); Motility/polarity/chemotaxis; EC 3.1.3.48 Chromosomal Location of Human Ortholog: 2q21.1 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; non-membrane spanning protein tyrosine phosphatase activity Biological Process: protein amino acid dephosphorylation
Research Articles on PTPN18	**1.** novel isoform of PTPN18 based on analysis of expressed sequence tags was discovered; deletion of 4 exons in the catalytic domain of the isoform may alter enzymatic activity; 2 of the novel isoform predictions were experimentally validated through RT-PCR
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