PTN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTN, Polyclonal Antibody
Full Product Name	PTN Rabbit pAb
Product Gene Name	anti-PTN antibody
Product Synonym Names	HARP; HBBM; HBNF; HBGF8; NEGF1; OSF-1; HB-GAM; HBGF-8; HBNF-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	17kDa
OMIM	162095
3D Structure	ModBase 3D Structure for P21246
Immunogen	A synthetic peptide of human PTN
Cellular Localization	Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PTN antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PTN antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-PTN antibody	Secreted growth factor that induces neurite outgrowth and which is mitogenic for fibroblasts, epithelial, and endothelial cells (PubMed:1768439, PubMed:1733956). Binds anaplastic lymphoma kinase (ALK) which induces MAPK pathway activation, an important step in the anti-apoptotic signaling of PTN and regulation of cell proliferation (PubMed:11278720). Binds to cell-surface target proteins via their chondroitin sulfate groups (PubMed:26896299). Down-regulates PTPRZ1 activity (PubMed:16814777).
Other Notes	Small volumes of anti-PTN 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 PTN purchase	MBS8545173 is an antibody targeting PTN. Also known as PTN Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4506281
NCBI GeneID	5764

NCBI Accession #	NP_002816.1
UniProt Primary Accession #	P21246
UniProt Related Accession #	P21246
GenBank Nucleotide #	NP_002816.1
NCBI Official Full Name	pleiotrophin isoform 1
NCBI Official Synonym Full Names	pleiotrophin
NCBI Official Symbol	PTN
NCBI Official Synonym Symbols	HARP; HBBM; HBNF; HBGF8; NEGF1; OSF-1; HB-GAM; HBGF-8; HBNF-1
UniProt Protein Name	Pleiotrophin
UniProt Synonym Protein Names	Heparin-binding brain mitogen; HBBM; Heparin-binding growth factor 8; HBGF-8; Heparin-binding growth-associated molecule; HB-GAM; Heparin-binding neurite outgrowth-promoting factor 1; HBNF-1; Osteoblast-specific factor 1
Protein Family	Pleiotrophin
UniProt Gene Name	PTN
UniProt Synonym Gene Names	HBNF1; NEGF1; PTN; HBBM; HBGF-8; HB-GAM; HBNF-1; OSF-1
UniProt Entry Name	PTN_HUMAN
NCBI Protein Information	pleiotrophin
NCBI Summary for PTN	The protein encoded by this gene is a secreted heparin-binding growth factor. The protein has significant roles in cell growth and survival, cell migration, angiogenesis and tumorigenesis. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Oct 2016]
UniProt Comments for PTN	PTN: Secreted growth factor that induces neurite outgrowth and which is mitogenic for fibroblasts, epithelial, and endothelial cells. Binds anaplastic lymphoma kinase (ALK) which induces MAPK pathway activation, an important step in the anti- apoptotic signaling of PTN and regulation of cell proliferation. Belongs to the pleiotrophin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 7q33 Cellular Component: extracellular space; endoplasmic reticulum Molecular Function: heparin binding; growth factor activity; protein phosphatase inhibitor activity Biological Process: nervous system development; positive regulation of cell division; positive regulation of cell proliferation; negative regulation of catalytic activity; learning; transmembrane receptor protein tyrosine phosphatase signaling pathway; bone mineralization
Research Articles on PTN	**1.** the mechanism of chemoresistance by chemotherapy-driven increases in the CDKN1A/PTN/PTPRZ1 axis depended on the NF-kappaB pathway
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