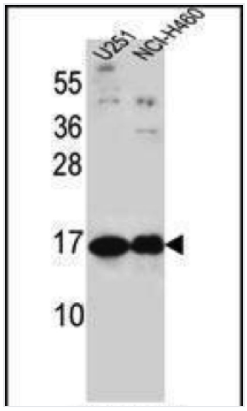
PTN Antibody – Rabbit Polyclonal

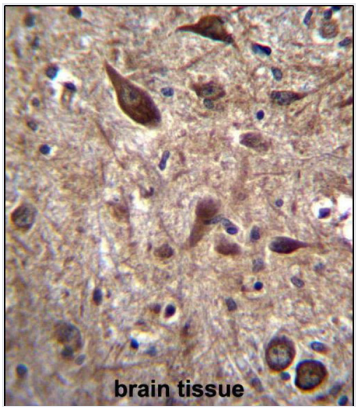
PRODUCT OVERVIEW

Product Name	PTN, Polyclonal Antibody
Full Product Name	PTN, CT (PTN, HBNF1, NEGF1, Pleiotrophin, Heparin-binding brain mitogen, Heparin-binding growth factor 8, Heparin-binding growth-associated molecule, Heparin-binding neurite outgrowth-promoting factor 1, Osteoblast-specific factor 1) (MaxLight 650)
Product Gene Name	anti-PTN antibody
Product Synonym Names	PTN; HBNF1; NEGF1; Pleiotrophin; Heparin-binding brain mitogen; Heparin-binding growth factor 8; Heparin-binding growth-associated molecule; Heparin-binding neurite outgrowth-promoting factor 1; Osteoblast-specific factor 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human PTN.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	18,942 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (136912088..137028546, complement). Location: 7q33
OMIM	162095
3D Structure	ModBase 3D Structure for P21246
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 127-154 in the C-terminal region of human PTN, UniProt Accession #P21246. Species sequence homology: mouse and rat
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-PTN antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-PTN antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-PTN antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PTN antibody	MBS6338884 is an antibody targeting PTN. Also known as PTN, CT (PTN, HBNF1, NEGF1, Pleiotrophin, Heparin-binding brain mitogen, Heparin-binding growth factor 8, Heparin-binding growth-associated molecule, Heparin-binding neurite outgrowth-promoting factor 1, Osteoblast-specific factor 1) (MaxLight 650). Reactive in Human. Host: Rabbit. PTN ia a heparin binding mitogenic protein. It has neurite extension activity.

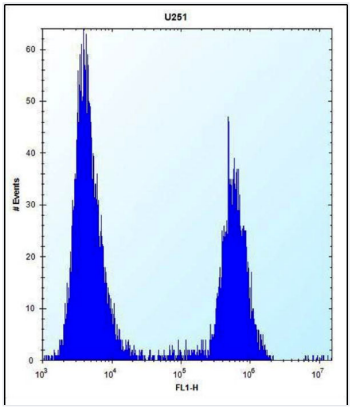
Product References and Citations for anti-PTN antibody	1. Li, F., et al. J. Biol. Chem. 285(36):27673-27685(2010). 2. Dos Santos, C., et al. Int. J. Cancer 127(5):1038-1051(2010). 3. Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010). 4. Svensson, S.L., et al. J. Biol. Chem. 285(21):16105-16115(2010). 5. M'Bika, J.P., et al. J. Gen. Virol. 91 (PT 5), 1346-1353 (2010).
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.



Western Blot (WB) of anti-PTN antibody
Western Blot analysis in U251,NCI-H460 cell line lysates (35ug/lane) usingMBS6012909. This demonstrates that MBS6012909 detected the PTN protein (arrow).



Immunohistochemistry (IHC) of anti-PTN antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue using MBS6012909 followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MBS6012909 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-PTN antibody
Flow cytometric analysis of U251 cells (right histogram) using 040643compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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 Secondary Accession #	Q5U0B0; Q6ICQ5; Q9UCC6
UniProt Related Accession #	P21246
GenBank Nucleotide #	NM_002825.5
NCBI Official Full Name	pleiotrophin

NCBI Official Synonym Full Names	pleiotrophin
NCBI Official Symbol	PTN
NCBI Official Synonym Symbols	HARP; HBNF; HBGF8; NEGF1
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; HBBM; OSF-1; HB-GAM; HBGF-8; HBNF-1; osteoblast-specific factor 1; heparin-binding brain mitogen; heparin binding growth factor 8; heparin-binding growth factor 8; heparin affin regulatory protein; neurite growth-promoting factor 1; heparin-
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.** elevated expression of PTN is likely to be involved in the pathogenesis of hypertrophic scar (HS).
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