

PTN Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PTN.

Catalog # AT3491a

Product Information

Application	WB, IHC
Primary Accession	P21246
Other Accession	NM_002825
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	5C3
Calculated MW	18942

Additional Information

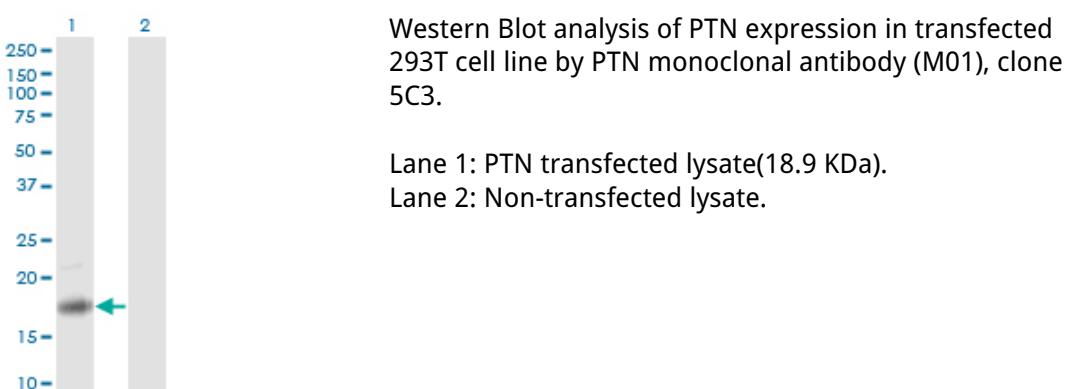
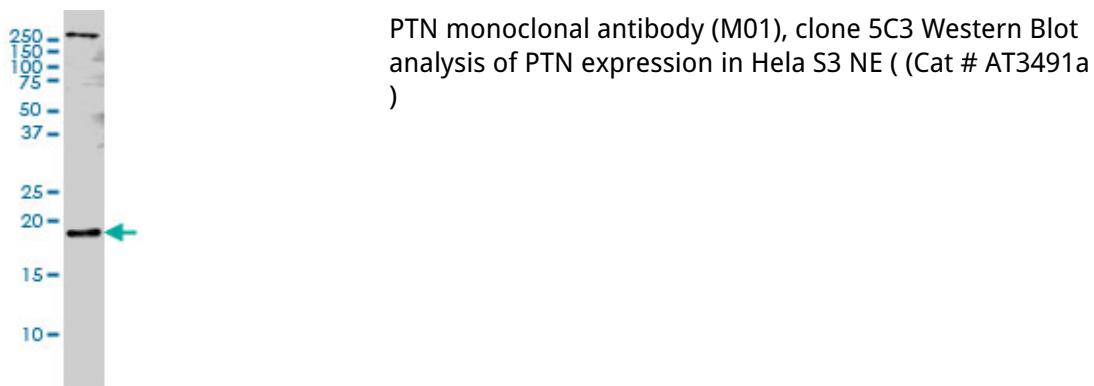
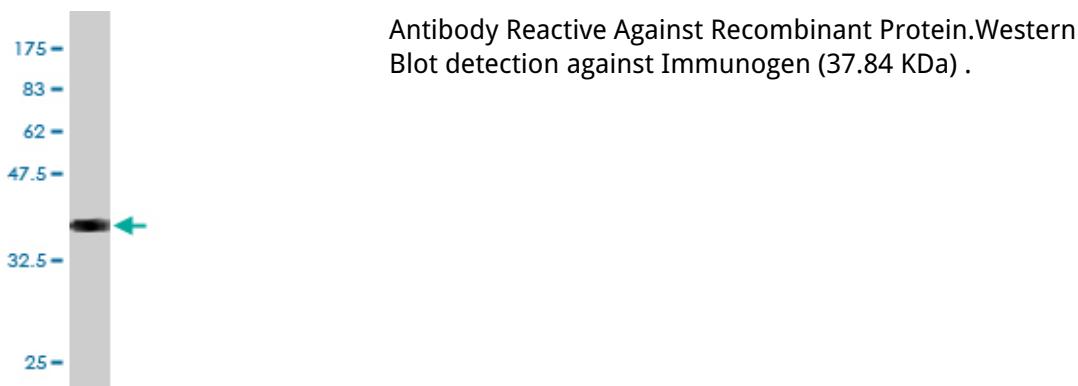
Gene ID	5764
Other Names	Pleiotrophin, PTN, Heparin-binding brain mitogen, HBBM, Heparin-binding growth factor 8, HBGF-8, Heparin-binding growth-associated molecule, HB-GAM, Heparin-binding neurite outgrowth-promoting factor 1, HBNF-1, Osteoblast-specific factor 1, OSF-1, PTN, HBNF1, NEGF1
Target/Specificity	PTN (NP_002816, 45 a.a. ~ 154 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PTN Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

References

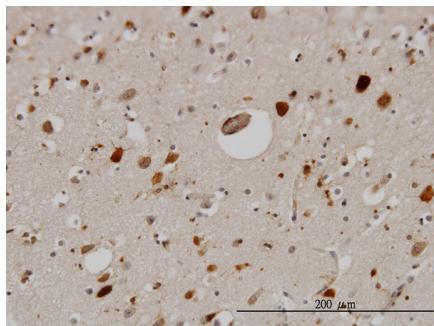
- 1.Expression of the growth factor pleiotrophin and its receptor protein tyrosine phosphatase beta/zeta in the serum, cartilage and subchondral bone of patients with osteoarthritis.Kaspiris A, Mikelis C, Heroult M, Khaldi L, Grivas TB, Kouvaras I, Dangas S, Vasiliadis E, Liote F, Courty J, Papadimitriou E.Joint Bone Spine. 2013 Jan 17. doi:pii: S1297-319X(12)00296-5. 10.1016/j.jbspin.2012.10.024. [Epub ahead of print]2.Interplay between ?v?]3 Integrin and Nucleolin Regulates Human Endothelial and Glioma Cell Migration.Koutsioumpa M, Polytarchou C, Courty J, Zhang Y, Kieffer N, Mikelis C, Skandalis SS, Hellman U, Iliopoulos D, Papadimitriou E.J Biol Chem. 2013 Jan 4;288(1):343-54. doi: 10.1074/jbc.M112.387076. Epub 2012 Nov 16.3.Pleiotrophin

promotes microglia proliferation and secretion of neurotrophic factors by activating extracellular signal-regulated kinase 1/2 pathway. Miao J, Ding M, Zhang A, Xiao Z, Qi W, Luo N, Di W, Tao Y, Fang Y. *Neurosci Res.* 2012 Sep 18; pii: S0168-0102(12)00173-3. doi: 10.1016/j.neures.2012.09.001. [Epub ahead of print] 4. Implications of pleiotrophin in human PC3 prostate cancer cell growth in vivo. Tsirmoula S, Dimas K, Hatziapostolou M, Lamprou M, Ravazoula P, Papadimitriou E. *Cancer Sci.* 2012 Oct;103(10):1826-32. doi: 10.1111/j.1349-7006.2012.02383.x. Epub 2012 Aug 14. 5. A peptide corresponding to the C-terminal region of pleiotrophin inhibits angiogenesis in vivo and in vitro. Mikelis C, Lamprou M, Koutsioumpa M, Koutsioubas AG, Spyridi Z, Zompra AA, Spiliopoulos N, Vradis AA, Katsoris P, Spyroulias GA, Cordopatis P, Courty J, Papadimitriou E. *J Cell Biochem.* 2011 Feb 22. doi: 10.1002/jcb.23066. [Epub ahead of print] 6. Integrin $\{\alpha\}\{\nu\}\{\beta\}3$ is a pleiotrophin receptor required for pleiotrophin-induced endothelial cell migration through receptor protein tyrosine phosphatase $\{\beta\}/\{\zeta\}$. Mikelis C, Sfaihou E, Koutsioumpa M, Kieffer N, Papadimitriou E. *FASEB J.* 2009 May;23(5):1459-69. Epub 2009 Jan 13. 7. Aprotinin stimulates angiogenesis and human endothelial cell migration through the growth factor pleiotrophin and its receptor protein tyrosine phosphatase beta/zeta. Koutsioumpa M, Hatziapostolou M, Mikelis C, Koolwijk P, Papadimitriou E. *Eur J Pharmacol.* 2009 Jan 14;602(2-3):245-9. Epub 2008 Dec 3.

Images



Immunoperoxidase of monoclonal antibody to PTN on formalin-fixed paraffin-embedded human cerebral



cortex. [antibody concentration 3 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.