

**PTN Antibody (monoclonal) (M02)**  
**Mouse monoclonal antibody raised against a partial recombinant PTN.**  
**Catalog # AT3492a**

## Specification

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### PTN Antibody (monoclonal) (M02) - Product Information

|                   |                           |
|-------------------|---------------------------|
| Application       | WB, IHC                   |
| Primary Accession | <a href="#">P21246</a>    |
| Other Accession   | <a href="#">NM_002825</a> |
| Reactivity        | Human                     |
| Host              | mouse                     |
| Clonality         | Monoclonal                |
| Isotype           | IgG1 Kappa                |
| Calculated MW     | 18942                     |

### PTN Antibody (monoclonal) (M02) - 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

#### 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) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

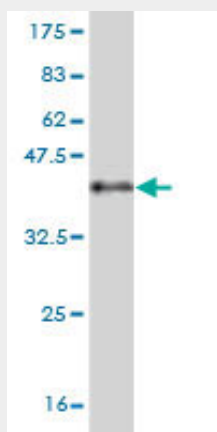
### PTN Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

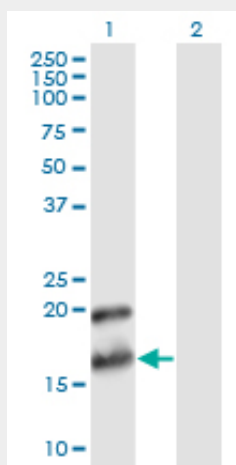
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## PTN Antibody (monoclonal) (M02) - Images

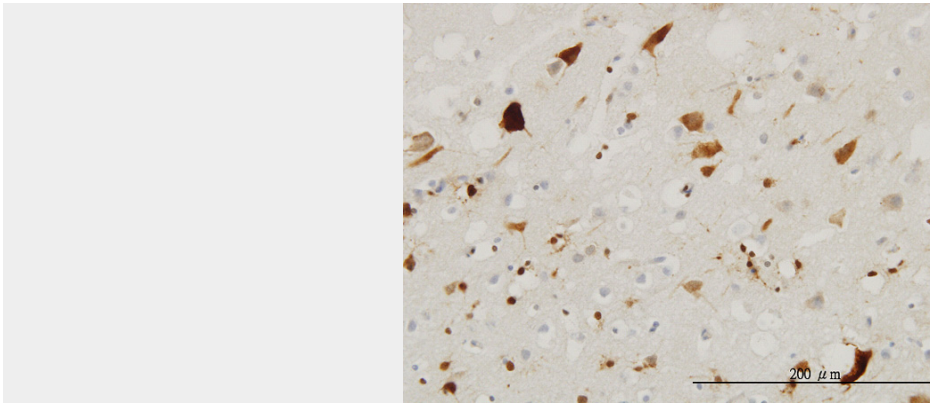


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 kDa) .



Western Blot analysis of PTN expression in transfected 293T cell line by PTN monoclonal antibody (M02), clone 2E3.

Lane 1: PTN transfected lysate (18.9 kDa).  
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to PTN on formalin-fixed paraffin-embedded human cerebral cortex. [antibody concentration 3 ug/ml]

#### **PTN Antibody (monoclonal) (M02) - References**

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Midkine and pleiotrophin have bactericidal properties: preserved antibacterial activity in a family of heparin-binding growth factors during evolution. Svensson SL, et al. J Biol Chem, 2010 May 21. PMID 20308059. Host factor pleiotrophin induces human immunodeficiency virus type 1 replication associated with inflammatory cytokine expression. M'Bika JP, et al. J Gen Virol, 2010 May. PMID 20032204. Antitumorigenic effects of a mutant of the heparin affinity regulatory peptide on the U87 MG glioblastoma cell line. Dos Santos C, et al. Int J Cancer, 2010 Sep 1. PMID 20013808. Pleiotrophin (PTN) is expressed in vascularized human atherosclerotic plaques: IFN- $\gamma$ /JAK/STAT1 signaling is critical for the expression of PTN in macrophages. Li F, et al. FASEB J, 2010 Mar. PMID 19917672.