

Datasheet for ABIN3044398  
**anti-Pleiotrophin antibody (C-Term)**



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2 Images

1 Publication

## Overview

Quantity:	100 µg
Target:	Pleiotrophin (PTN)
Binding Specificity:	AA 150-168, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Pleiotrophin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Pleiotrophin(PTN) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Pleiotrophin(150-168aa QAESKKKKKEGKKQEKMLD), identical to the related rat and mouse sequences.
Sequence:	QAESKKKKKE GKKQEKMLD
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Pleiotrophin(PTN) detection. Tested with WB, IHC-P in

## Product Details

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Human,Mouse,Rat.  
Gene Name: pleiotrophin  
Protein Name: Pleiotrophin(PTN)

Purification: Immunogen affinity purified.

## Target Details

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Target: Pleiotrophin (PTN)

Alternative Name: PTN ([PTN Products](#))

Background: Pleiotrophin(PTN) also known as heparin-binding brain mitogen(HBBM) or heparin-binding growth factor 8(HBGF-8) or neurite growth-promoting factor 1(NEGF1) or heparin affinity regulatory peptide(HARP) or heparin binding growth associated molecule(HB-GAM) is a protein that in humans is encoded by the PTN gene. PTN is the first member of a family of developmentally regulated cytokines. The PTN gene is mapped to 7q33-q34. A mutant PTN that contained only the first N-terminal 40 amino acids was a dominant negative. Pleiotrophin is expressed in the central and peripheral nervous system and also in several non-neural tissues, notably lung, kidney, gut and bone. Pleiotrophin binds to cell-surface nucleolin as a low affinity receptor. This binding can inhibit HIV infection.

Synonyms: HARP antibody|HB-GAM antibody|HBBM antibody|HBGM antibody|HBGF-8 antibody|HBGF8 antibody|HBNF antibody|HBNF-1 antibody|HBNF1 antibody|Heparin binding growth associated molecule antibody|Heparin binding growth factor 8 antibody|Heparin binding neurite outgrowth promoting factor 1 antibody|Heparin-binding brain mitogen antibody|Heparin-binding growth factor 8 antibody|Heparin-binding growth-associated molecule antibody|Heparin-binding neurite outgrowth-promoting factor 1 antibody|NEGF1 antibody|Neurite growth promoting factor 1 antibody|OSF-1 antibody|OSF1 antibody|Osteoblast-specific factor 1 antibody|Pleiotrophin antibody|PTN antibody|PTN\_HUMAN antibody

UniProt: [P21246](#)

Pathways: [RTK Signaling](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat,

## Application Details

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Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.

Optimal dilutions should be determined by end users.

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Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

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Concentration: 500 µg/mL

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Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

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Preservative: Thimerosal (Merthiolate), Sodium azide

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Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

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Handling Advice: Avoid repeated freezing and thawing.

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Storage: 4 °C/-20 °C

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Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

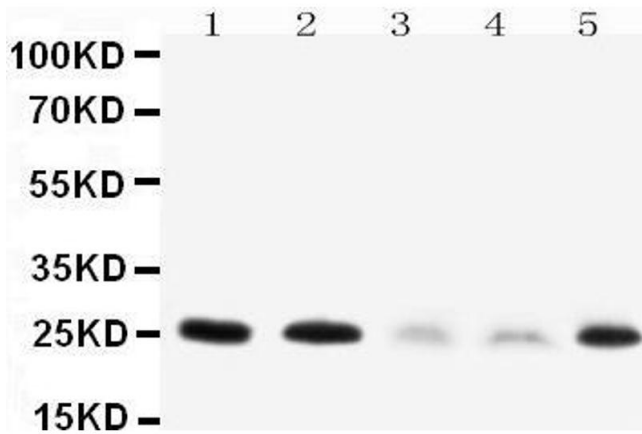
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Expiry Date: 12 months

## Publications

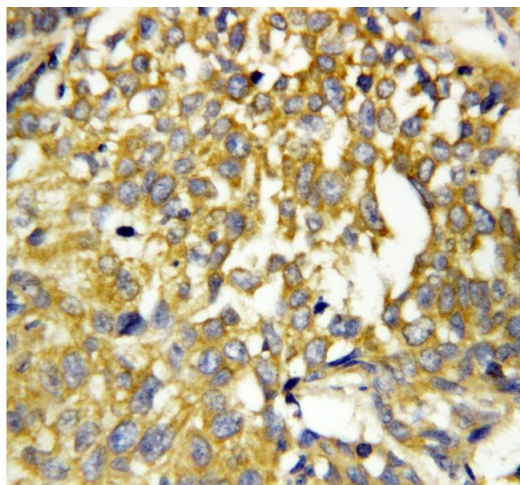
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Product cited in: Zhang, Liu, Liu, Zhou, Song, Cao, An: "miR-182 aids in receptive endometrium development in dairy goats by down-regulating PTN expression." in: **PLoS ONE**, Vol. 12, Issue 7, pp. e0179783, (2017) ([PubMed](#)).



### Western Blotting

**Image 1.** Anti-Pleiotrophin antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Rat Kidney Tissue Lysate Lane 3: MCF-7 Cell Lysate Lane 4: Cell Lysate Lane 5: SMMC Cell Lysate



### Immunohistochemistry

**Image 2.** Anti-Pleiotrophin antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue