

Active Recombinant Human PTN Protein(Gly33~Asp168), His-tagged

Cat. No. PTN-6088H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTN Protein(Gly33~Asp168), fused with N-terminal His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly33~Asp168
Form	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Bio-activity	Pleiotrophin (PTN) is a 136 amino acid secreted heparin-binding cytokine that signals diverse functions, including lineage-specific differentiation of glial progenitor cells, neurite outgrowth, and angiogenesis. A considerable amount of research has been carried out to understand the mechanisms by which PTN regulates these events. PTN has now been shown to bind a diverse collection of receptors including Syndecan 1 (SDC1). A functional binding ELISA assay was conducted to detect the interaction of recombinant human PTN and recombinant human SDC1. Briefly, PTN were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to SDC1-coated (2 ug/ml, 100 ul/well) microtiter wells and incubated for 1h at 37 °C. Wells were washed with PBST and incubated for 1h with PTN pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 5 times. With the addition of

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substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of recombinant human PTN and recombinant human SDC1 was shown in Figure 1, the EC50 was 3.47 ug/ml.

Molecular Mass	18kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>95%
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PTN pleiotrophin [Homo sapiens]
Official Symbol	PTN
Synonyms	PTN; pleiotrophin; NEGF1, neurite growth promoting factor 1; HBGF8; HBNF; heparin binding growth factor 8; HBBM; OSF-1; HB-GAM; HBGF-8; HBNF-1; osteoblast-specific factor 1; heparin-binding brain mitogen; heparin-binding growth factor 8; heparin affin regulatory protein; neurite growth-promoting factor 1; heparin-binding growth-associated molecule; heparin-binding neurite outgrowth-promoting factor 1; pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1); HARP; NEGF1

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Gene ID 5764

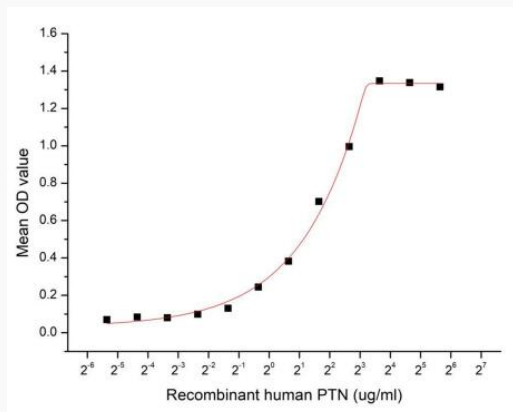
mRNA Refseq NM_002825

Protein Refseq NP_002816

MIM 162095

UniProt ID P21246

Activity



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SDS-PAGE



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