

Mouse Pleiotrophin ELISA Kit | PTN elisa kit

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CATALOG #
AAA101230

REACTIVITY
Mouse

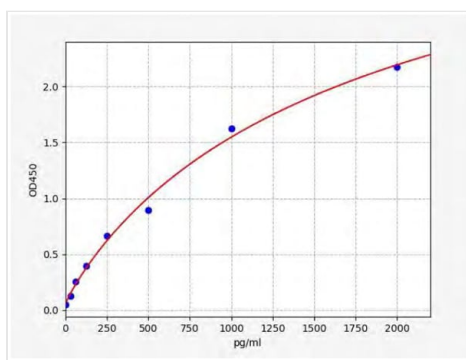
PRODUCT SYNONYMS

Pleiotrophin; Mouse Pleiotrophin ELISA Kit; PTN/Pleiotrophin/Osteoblast-specific factor 1/OSF-1/Heparin-binding neurite outgrowth-promoting factor 1/HBNF-1/Heparin-binding growth-associated molecule/HB-GAM/Heparin-binding brain mitogen/HBBM/Heparin-binding growth factor 8/HBGF-8/neurite growth-promoting factor 1; PTN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize PTN, no obvious cross reaction with other analogues
Sequence Length	168
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PTN elisa kit	Background: Pleiotrophin (PTN) and midkine (MK) comprise a family of structurally related, developmentally regulated genes. Cells reported to express PTN include osteoblasts, chondrocytes, fibroblasts, astrocytes, oligodendroglia, Schwann cells, neurons, pituicytes and Leydig cells. PTN is a heparin-binding growth factor that functions as a weak mitogen and promotes neurite outgrowth from embryonic brain neurons. Diseases associated with PTN include Nasal Cavity Olfactory Neuroblastoma and Benign Meningioma. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti PTN antibody was pre-coated onto the 96-well plate. The biotin conjugated anti PTN antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with PTN conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of PTN in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506281
NCBI GeneID	5764
NCBI Accession #	NP_002816.1
NCBI GenBank Nucleotide #	NM_002825.5
Molecular Weight	18,942 Da
NCBI Official Full Name	pleiotrophin
NCBI Official Synonym Full Names	pleiotrophin
NCBI Official Symbol	PTN
NCBI Official Synonym Symbols	HARP; HBNF; HBGF8; NEGF1
NCBI Protein Information	pleiotrophin
UniProt Protein Name	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

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.