

Human Pleiotrophin ELISA Kit | PTN elisa kit

Human Pleiotrophin ELISA Kit

CATALOG #
AAA98164

REACTIVITY
Human

PRODUCT SYNONYMS

Pleiotrophin; Human Pleiotrophin ELISA Kit; PTN/Pleiotrophin/Osteoblast-specific factor 1/OSF-1/Heparin-binding neurite outgrowth-promoting factor 1/HBGF-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	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PTN. No significant cross-reactivity or interference between PTN and analogues was observed.
Sequence Length	168
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PTN were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PTN were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
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

Typical Data & Standard Curve

Results of a typical standard run of a PTN ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	pg/ml	0	31.25	62.5	125	250	500	1000	2000
Y	OD450	0.035	0.091	0.14	0.227	0.419	0.907	1.711	2.551

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PTN elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti- PTN antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- PTN antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the PTN amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of PTN can be calculated.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/ptn-human-elisa-kits/pleiotrophin/98164>