

Human ENPP5 ELISA Kit | ENPP5 elisa kit

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CATALOG #
AAA258429

REACTIVITY
Human

PRODUCT SYNONYMS

ENPP5; Human ENPP5 ELISA Kit; ENPP-5 ELISA Kit; Human; ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative); NPP-5 ELISA Kit; ENPP5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human ENPP5 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	93.75-6000pg/mL
Sensitivity	76.03pg/mL
Conjugation	HRP
Interference	Preparations of the ENPP2 and ENPP7 at 60ng/mL in a mid-range recombinant Human ENPP5 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

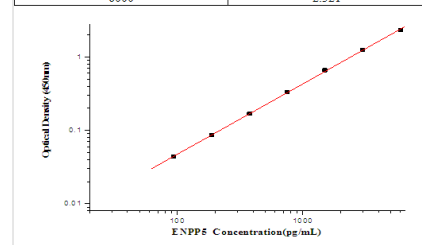
IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF
ENPP2	ENPP7		

Application Data

This assay recognizes both recombinant and natural Human ENPP5. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
93.75	0.044
187.5	0.086
375	0.168
750	0.329
1500	0.659
3000	1.242
6000	2.321



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for ENPP5 elisa kit	This ENPP-5 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human ENPP-5 protein in Serum. It contains recombinant Human ENPP-5, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: ENPP5 is a member of the nucleotide pyrophosphatase/phosphodiesterase family (NPP). It is a family comprised of dimeric enzymes that catalyze the hydrolysis of phosphate diester bonds. There are seven isoforms in NPP family, some of which prefer nucleotide substrates, some of which prefer phospholipid substrates, and others of which prefer substrates that have not yet been determined. NPP also belongs to the alkaline phosphatase (AP) superfamily of enzymes and they are located in the cell membrane and hydrolyze extracellular phosphate diesters to affect a wide variety of biological processes. ENPP5 belongs to a group of nucleotidemetabolizing ectoenzymes, which regulate the availability of extracellular nucleotides. ENPP5 may play a role in neuronal cell communication. However, it lacks nucleotide pyrophosphatase and lysopholipase D activity. It may also be involved in neuronal cell communication. The amino acid sequence of human ENPP5 is 100%, 88%, and 82% identical to that of chimpanzee, dog and mouse/rat. ENPP5 functions in phospholipid metabolism.
References	Strausberg RL, et al. (2002) Generation and initial analysis of more than 15, 000 full-length human and mouse cDNA sequences. Proc Natl Acad Sci. 99(26):16899-903. Gerhard DS, et al. (2004) The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Genome Res. 14(10B):2121-7. Lamesch P, et al. (2007) hORFeome v3.1: a resource of human open reading frames representing over 10, 000 human genes. Genomics. 89(3):307-15.

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/enpp5/258429>