

Human Protein Tyrosine Phosphatase Receptor Type O ELISA Kit | PTPRO elisa kit

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CATALOG #
AAA85973

REACTIVITY
Human

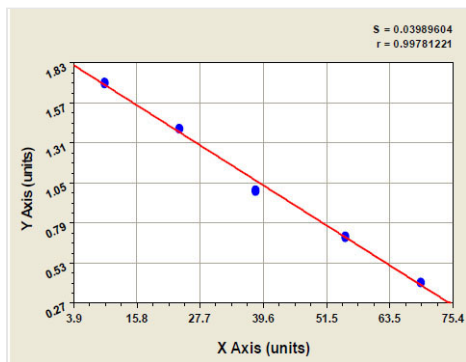
PRODUCT SYNONYMS

Protein Tyrosine Phosphatase Receptor Type O; Human Protein Tyrosine Phosphatase Receptor Type O ELISA Kit; PTPRO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This PTPRO ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human PTPRO. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PTPRO elisa kit

Principle of the assay: PTPRO ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-PTPRO antibody and an PTPRO-HRP conjugate. The assay sample and buffer are incubated together with PTPRO-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the PTPRO concentration since PTPRO from samples and PTPRO-HRP conjugate compete for the anti-PTPRO antibody binding site. Since the number of sites is limited, as more sites are occupied by PTPRO from the sample, fewer sites are left to bind PTPRO-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PTPRO concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23271167
NCBI GeneID	5800
Molecular Weight	67,672 Da
NCBI Official Full Name	PTPRO protein
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, O
NCBI Official Symbol	PTPRO
NCBI Official Synonym Symbols	NPHS6; PTPU2; GLEPP1; PTP-OC; PTP-U2; PTPROT; R-PTP-O
NCBI Protein Information	receptor-type tyrosine-protein phosphatase O; PTP phi; PTPase U2; phosphotyrosine phosphatase U2; glomerular epithelial protein 1; protein tyrosine phosphatase PTP-U2; osteoclastic transmembrane protein-tyrosine phosphatase
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase O
UniProt Gene Name	PTPRO
UniProt Synonym Gene Names	GLEPP1; PTPU2; R-PTP-O; PTP-U2; PTPase U2
UniProt Entry Name	PTPRO_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.

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Online datasheet: <https://stage.aaabiotech.com/ptpro-human-elisa-kits/protein-tyrosine-phosphatase-receptor-type-o/85973>