

Human Protein tyrosine phosphatase 1B ELISA Kit | PTP1B elisa kit

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CATALOG #
AAA95847

REACTIVITY
Human

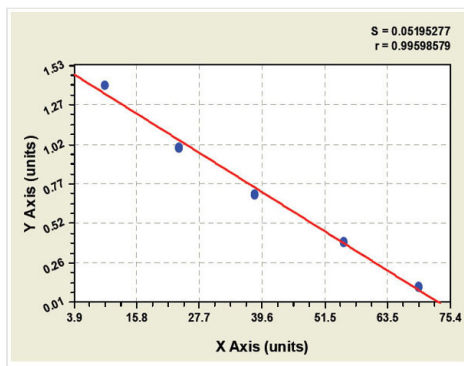
PRODUCT SYNONYMS

Protein tyrosine phosphatase 1B; Human Protein tyrosine phosphatase 1B ELISA Kit; PTP1B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This PTP1B ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human PTP1B. 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 PTP1B elisa kit

Principle of the Assay: PTP1B ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-PTP1B antibody and an PTP1B-HRP conjugate. The assay sample and buffer are incubated together with PTP1B-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 PTP1B concentration since PTP1B from samples and PTP1B-HRP conjugate compete for the anti-PTP1B antibody binding site. Since the number of sites is limited, as more sites are occupied by PTP1B from the sample, fewer sites are left to bind PTP1B-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PTP1B concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13919645
NCBI GeneID	5770
Molecular Weight	49,967 Da
NCBI Official Full Name	protein tyrosine phosphatase 1B, partial
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 1
NCBI Official Symbol	PTPN1
NCBI Official Synonym Symbols	PTP1B
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 1; protein-tyrosine phosphatase 1B; protein tyrosine phosphatase, placental
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 1
UniProt Gene Name	PTPN1
UniProt Synonym Gene Names	PTP1B; PTP-1B
UniProt Entry Name	PTN1_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://stage.aaabiotech.com/ptp1b-human-elisa-kits/protein-tyrosine-phosphatase-1b/95847>