

Human Protein tyrosine phosphatase 1B (PTP1B) ELISA Kit



Catalog No: #EK7968

Orders: order@signalwayantibody.com

Package Size: #EK7968-1 48T #EK7968-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Protein tyrosine phosphatase 1B (PTP1B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	PTP1B; protein tyrosine phosphatase 1B protein tyrosine phosphatase; placental
Accession No.	P18031
Uniprot	P18031
GeneID	5770;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.054 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PTPN1 in samples. An antibody specific for PTPN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTPN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTPN1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PTPN1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Tyrosine-protein phosphatase non-receptor type 1 is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity.

PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotyrosine residues of insulin receptor kinase.

Note: This product is for in vitro research use only