PTPN1 (Human) Cell-Based ELISA Kit

Catalog # KA3463 Size 1 Kit

Specification

Product Description	PTPN1 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative det ermination of PTPN1 expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

Gene Info — PTPN1

Entrez GeneID	5770
Gene Name	PTPN1
Gene Alias	PTP1B
Gene Description	protein tyrosine phosphatase, non-receptor type 1
Omim ID	176885 609830

Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene 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 phosphotryosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth control, and cell response to interferon stimulation. [provided by RefSeq
Other Designations	OTTHUMP00000031266|non-receptor tyrosine phosphatase 1|protein tyrosine phosphatase 1B|protein tyrosine phosphatase, placental

Pathway

- Adherens junction
- Insulin signaling pathway

Disease

- Albuminuria
- Alzheimer disease
- Arteriosclerosis
- Atherosclerosis
- Atrophy
- Calcinosis
- Cardiomyopathy
- Cardiovascular Diseases
- Cerebrovascular Disorders
- Coronary Artery Disease
- Coronary Disease
- Diabetes Complications

- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Retinopathy
- Dyslipidemias
- Genetic Predisposition to Disease
- Glucose Intolerance
- Helicobacter Infections
- Hypertension
- Insulin Resistance
- Kidney Failure
- Lymphoma
- Metabolic Syndrome X
- Neoplasms
- Noonan Syndrome
- Obesity
- Osteoporosis
- Ovarian Neoplasms
- Peripheral Vascular Diseases
- Pulmonary Valve Stenosis
- Stomach Neoplasms
- Syndrome