



Human Receptor-type tyrosine-protein phosphatase zeta (PTPRZ1) ELISA Kit

Catalog No: #EK7952

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Package Size: #EK7952-1 48T #EK7952-2 96T

Description

Product Name	Human Receptor-type tyrosine-protein phosphatase zeta (PTPRZ1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HPTPZ; HPTPzeta; PTP-ZETA; PTP18; PTPRZ; PTPZ; RPTPB; RPTPbeta; phosphacan; protein tyrosine phosphatase; receptor-type; zeta polypeptide 1 protein tyrosine phosphatase; receptor-type; zeta1 recepto
Accession No.	P23471
Uniprot	P23471
GeneID	5803;
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:93.75-6000 pg/mL
Sensitivity:23.44 pg/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 PTPRZ1 in samples. An antibody specific for PTPRZ1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTPRZ1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTPRZ1 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 PTPRZ1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Receptor-type tyrosine-protein phosphatase zeta is a member of the receptor type protein tyrosine phosphatase family and encodes a single-pass type I membrane protein with two cytoplasmic tyrosine-protein phosphatase domains, an alpha-carbonic anhydrase domain and a fibronectin type-III domain.

Expression of this gene is induced in gastric cancer cells, in the remyelinating oligodendrocytes of multiple sclerosis lesions, and in human embryonic kidney cells under hypoxic conditions. Both the protein and transcript are overexpressed in glioblastoma cells, promoting their haptotactic migration.

Alternative splice variants that encode different protein isoforms have been described but their full-length nature has not been determined.

Note: This product is for in vitro research use only