

Human Dual Specificity Plaosplaatase (DUSP1) ELISA Kit



Catalog No: #EK10524

Orders: order@signalwayantibody.com

Package Size: #EK10524-1 48T #EK10524-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Dual Specificity Plaosplaatase (DUSP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CL100; HVH1; MKP-1; MKP1; PTPN10; serine/threonine specific protein phosphatase
Accession No.	P28562
Uniprot	P28562
GeneID	1843;
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:31.25-2000 pg/mL

Sensitivity:12.2 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 DUSP1 in samples. An antibody specific for DUSP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDUSP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DUSP1 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 DUSP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Dual specificity protein phosphatase 1 is an enzymeinduced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence similarity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus. The bacterially expressed and purified DUSP1 protein has intrinsic phosphatase activity, and specifically inactivates mitogen-activated protein kinase in vitro by the concomitant dephosphorylation of both its phosphothreonine and phosphotyrosine residues. Furthermore, it suppresses the activation of MAP kinase by oncogenic ras in extracts of Xenopus oocytes.

Note: This product is for in vitro research use only