Human Mitogen-activated protein kinase 13 (MAPK13) ELISA Kit

Catalog No: #EK9921

Package Size: #EK9921-1 48T #EK9921-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Mitogen-activated protein kinase 13 (MAPK13) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC99536; PRKM13; SAPK4; p38delta; mitogen-activated protein kinase p38 delta|stress-activated protein kinase 4
Accession No.	O15264
Uniprot	O15264
GeneID	5603;
Storage	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. 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).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.061 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 MAPK13 in samples. An antibody specific for MAPK13 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAPK13 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPK13 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 MAPK13 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Mitogen Activated Protein Kinase 13 is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development.

This kinase is closely related to p38 MAP kinase, both of which can be activated by proinflammatory cytokines and cellular stress. MAP kinase kinases 3, and 6 can phosphorylate and activate this kinase. Transcription factor ATF2, and microtubule dynamics regulator stathmin have been shown to be the substrates of this kinase.Expressed in testes, pancreas, small intestine, lung and kidney. Abundant in macrophages, also present in neutrophils, CD4+ T-cells, and endothelial cells.

Note: This product is for in vitro research use only