Human MAP kinase-activated protein kinase 2 (MAPKAPK2) ELISA Kit

Catalog No: #EK9913

Package Size: #EK9913-1 48T #EK9913-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human MAP kinase-activated protein kinase 2 (MAPKAPK2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MK2;
Accession No.	P49137
Uniprot	P49137
GeneID	9261;
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:Request Information

Sensitivity:Request Information

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 MAPKAPK2 in samples. An antibody specific for MAPKAPK2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAPKAPK2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPKAPK2 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 MAPKAPK2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:MAP kinase-activated protein kinase 2 is regulated through direct phosphorylation by p38 MAP kinase. In conjunction with p38 MAP kinase, this kinase is known to be involved in many cellular processes including stress and inflammatory responses, nuclear export, gene expression regulation and cell proliferation.

Heat shock protein HSP27 was shown to be one of the substrates of this kinase in vivo. Two transcript variants encoding two different isoforms have been found for this gene.The cDNA sequence revealed the following features (in 5-prime to 3-prime order): a proline-rich region containing 2 putative SH3-binding sites, a kinase catalytic domain, a threonine residue phosphorylated by MAP kinase, and a nuclear localization signal.

Note: This product is for in vitro research use only