

Human MAP kinase-activated protein kinase 5 (MAPKAPK5) ELISA Kit



Catalog No: #EK9908

Orders: order@signalwayantibody.com

Package Size: #EK9908-1 48T #EK9908-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human MAP kinase-activated protein kinase 5 (MAPKAPK5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	PRAK; MAP kinase-activated protein kinase 5 p38-regulated/activated protein kinase
Accession No.	Q8IW41
Uniprot	Q8IW41
GeneID	8550;
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: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 MAPKAPK5 in samples. An antibody specific for MAPKAPK5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAPKAPK5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPKAPK5 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 MAPKAPK5 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 5 is a member of the serine/threonine kinase family. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. In vitro, this kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites. Two alternately spliced transcript variants of this gene encoding distinct isoforms have been reported.MAPKAPK5 encodes a predicted 471-amino acid protein that shares 20 to 30% sequence identity with RSK, MNK, and MAPKAPK kinases. MAPKAPK5 contains the conserved protein kinase domains I through XI, which are characteristic of all protein kinases.

Note: This product is for in vitro research use only