

Human Mitogen-activated protein kinase 3 (MAPK3) ELISA Kit



Catalog No: #EK9920

Orders: order@signalwayantibody.com

Package Size: #EK9920-1 48T #EK9920-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Mitogen-activated protein kinase 3 (MAPK3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ERK1; HS44KDAP; HUMKER1A; MGC20180; P44ERK1; P44MAPK; PRKM3; OTTHUMP00000174538 extracellular signal-regulated kinase 1 extracellular signal-related kinase 1
Accession No.	P27361
Uniprot	P27361
GeneID	5595;
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:0.312-20 ng/mL

Sensitivity:0.118 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 MAPK3 in samples. An antibody specific for MAPK3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAPK3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPK3 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 MAPK3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Mitogen-activated protein kinase 3 is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), 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.

The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene.

Note: This product is for in vitro research use only