

Human Apoptosis signal regulating kinase 1 (ASK-1) ELISA Kit



Catalog No: #EK9927

Orders: order@signalwayantibody.com

Package Size: #EK9927-1 48T #EK9927-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Apoptosis signal regulating kinase 1 (ASK-1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP3-325F22.4; ASK1; MAPKKK5; MEKK5; MAP/ERK kinase kinase 5 MAPK/ERK kinase kinase 5 apoptosis signal regulating kinase 1
Accession No.	Q99683
Uniprot	Q99683
GeneID	4217;
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:0.119 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:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate MAP3K5 in samples. An antibody specific for MAP3K5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAP3K5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAP3K5 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 MAP3K5 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Apoptosis signal-regulating kinase 1 is an enzyme which in humans is encoded by the MAP3K5 gene. This gene is located on chromosome 6 at locus 6q22.33 and the transcribed protein contains 1,374 amino acids with 11 kinase subdomains. The ASK1 (MAPKKK5) protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; ASK1 does not activate MAPK/ERK.ASK1 found in the inactive form, bound to reduced thioredoxin.When oxidized by a reactive oxygen species, Trx dissociates from ASK1. The ASK1, which is found as a homo-oligodimer, autophosphorylates and becomes an active MAP kinase kinase kinase.

Note: This product is for in vitro research use only