

Human Mitogen-activated protein kinase 12 (MAPK12) ELISA Kit



Catalog No: #EK9922

Orders: order@signalwayantibody.com

Package Size: #EK9922-1 48T #EK9922-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Mitogen-activated protein kinase 12 (MAPK12) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ERK3; ERK6; P38GAMMA; PRKM12; SAPK-3; SAPK3; mitogen-activated protein kinase 3 stress-activated protein kinase 3
Accession No.	P53778
Uniprot	P53778
GeneID	6300;
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:0.072 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 MAPK12 in samples. An antibody specific for MAPK12 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MAPK12 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPK12 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 MAPK12 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: Activation of members of the mitogen-activated protein kinase family is a major mechanism for transduction of extracellular signals. Stress-activated protein kinases are one subclass of MAP kinases. The protein encoded by this gene functions as a signal transducer during differentiation of myoblasts to myotubes. By screening with sequences based on those of the rat ERK3 gene, Lechner et al. (1996) isolated an ERK6 clone from a human skeletal muscle cDNA library. They reported that ERK6 appears to function as a signal transducer during differentiation of myoblasts to myotubes. Li et al. (1996) stated that SAPK3 is probably identical to the ERK6 gene cloned by Lechner et al. (1996).

Note: This product is for in vitro research use only