Human STE20/SPS1-related proline-alanine-rich protein kinase (STK39) ELISA Kit

Catalog No: #EK6692

Package Size: #EK6692-1 48T #EK6692-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human STE20/SPS1-related proline-alanine-rich protein kinase (STK39) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DCHT; DKFZp686K05124; PASK; SPAK; Ste20-like protein kinase|proline-alanine-rich STE20-related kinase|serine/threonine kinase 39|small intestine SPAK-like kinase
Accession No.	Q9UEW8
Uniprot	Q9UEW8
GeneID	27347;
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:0.781-50 ng/mL

Sensitivity:0.24 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 STK39 in samples. An antibody specific for STK39 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySTK39 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STK39 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 STK39 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:STK39 encodes a serine/threonine kinase that is thought to function in the cellular stress response pathway. The kinase is activated in response to hypotonic stress, leading to phosphorylation of several cation-chloride-coupled cotransporters. The deduced 547-amino acid protein has a calculated molecular mass of 59.6 kD. STK39 contains an N-terminal series of proline and alanine repeats (PAPA box), followed by a serine/threonine kinase catalytic domain, a nuclear localization signal, a consensus caspase cleavage recognition motif, and a C-terminal region. Northern blot analysis detected ubiquitous expression of a 3.8-kb transcript, with most abundant expression in brain and pancreas. Western blot analysis of mouse tissues detected a protein of about 60 kD in all tissues examined.

Note: This product is for in vitro research use only