Human Myristoylated alanine-rich C-kinase substrate (MARCKS) ELISA Kit

Catalog No: #EK9893

Package Size: #EK9893-1 48T #EK9893-2 96T

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

Description

Product Name	Human Myristoylated alanine-rich C-kinase substrate (MARCKS) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	80K-L; FLJ14368; FLJ90045; MACS; PKCSL; PRKCSL; myristoylated alanine-rich protein kinase C substrate (MARCKS; 80K-L)|phosphomyristin
Accession No.	P29966
Uniprot	P29966
GeneID	4082;
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:0.059 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 MARCKS in samples. An antibody specific for MARCKS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMARCKS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MARCKS 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 MARCKS bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:MARCKS is a substrate for protein kinase C. It is localized to the plasma membrane and is an actin filament crosslinking protein. Phosphorylation by protein kinase C or binding to calcium-calmodulin inhibits its association with actin and with the plasma membrane, leading to its presence in the cytoplasm. MARCKS is a filamentous actin crosslinking protein, with activity that is inhibited by PKC-mediated phosphorylation and by binding to calcium-calmodulin. MARCKS may be a regulated crossbridge between actin and the plasma membrane, and modulation of the actin crosslinking activity of the MARCKS protein by calmodulin and phosphorylation represents a potential convergence of the calcium-calmodulin and protein kinase C signal transduction pathways in the regulation of the actin cytoskeleton.

Note: This product is for in vitro research use only