Human Dedicator of cytokinesis protein 3 (DOCK3) ELISA Kit

Catalog No: #EK10544

Package Size: #EK10544-1 48T #EK10544-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Dedicator of cytokinesis protein 3 (DOCK3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAA0299; MOCA; PBP; dedicator of cyto-kinesis 3|modifier of cell adhesion|presenilin-binding protein
Accession No.	Q8IZD9
Uniprot	Q8IZD9
GeneID	1795;
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:0.053 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 DOCK3 in samples. An antibody specific for DOCK3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDOCK3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DOCK3 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 DOCK3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Dock3 was originally discovered in a screen for proteins that bind presenilin (a transmembrane protein which is mutated in early onset Alzheimer's disease).Dock3 is specifically expressed in neurones (primarily in the cerebral cortex and hippocampus).Dock3 is part of a large class of proteins (GEFs) which contibrute to cellular signalling events by activating small G proteins. In their resting state G proteins are bound to Guanosine diphosphate (GDP) and their activation requires the dissociation of GDP and binding of guanosine triphosphate (GTP). GEFs activate G proteins by promoting this nucleotide exchange.Dock3 exhibits the same domain arrangement as Dock180 and these proteins share a considerable (40%) degree of sequence similarity.

Note: This product is for in vitro research use only