Human Dedicator of cytokinesis protein 4 (DOCK4) ELISA Kit

Catalog No: #EK10543

Package Size: #EK10543-1 48T #EK10543-2 96T

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

Description

Product Name	Human Dedicator of cytokinesis protein 4 (DOCK4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	WUGSC:H_GS034D21.1; FLJ34238; KIAA0716; MGC134911; MGC134912; OTTHUMP00000207227
Accession No.	Q8N1I0
Uniprot	Q8N1I0
GeneID	9732;
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:0.078 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 DOCK4 in samples. An antibody specific for DOCK4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDOCK4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DOCK4 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 DOCK4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Dock4 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.The domain arrangement of Dock4 is largely equivalent to that of Dock180 (the archetypal member of the DOCK family) and other DOCK-A/B family members (35% sequence identity with Dock180, 39% with Dock2 and 54% with Dock3). Dock4, however, contains a unique set of motifs at its proline-rich C-terminus which include a Src-binding site that is shared with CED-5, the C. elegans ortholog of mammalian DOCK proteins.

Note: This product is for in vitro research use only