Human Myomegalin (PDE4DIP) ELISA Kit

Catalog No: #EK8622

Package Size: #EK8622-1 48T #EK8622-2 96T

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

Description

Product Name	Human Myomegalin (PDE4DIP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CMYA2; DKFZp781J054; MGC75440; MMGL; cardiomyopathy associated 2|myomegalin
Accession No.	Q5VU43
Uniprot	Q5VU43
GeneID	9659;
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:47-3000 pg/mL

Sensitivity:11.75 pg/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 PDE4DIP in samples. An antibody specific for PDE4DIP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPDE4DIP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDE4DIP 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 PDE4DIP bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:By analyzing ESTs for cardiac muscle-specific transcripts, followed by screening heart cDNA libraries and 5-prime RACE, Soejima et al. (2001) cloned 4 splice variants of PDE4DIP, which they called MMGL. The variant-1 transcript has a long 3-prime untranslated region containing 9 possible polyadenylation signals, and it encodes a deduced 174-amino acid protein. Variants 2, 3, and 4 encode proteins of 174, 173, and 240 amino acids, respectively. Northern blot analysis detected high expression of a 1.0- to 1.3-kb band and lower expression of 4.4- and 8.5-kb bands in adult and fetal heart, skeletal muscle, and all specific heart regions examined. Only the 4.4-kb transcript was detected in aorta. Fluorescence-tagged variants 1 and 4 were expressed in both the cytoplasm and nucleus of transfected mouse myocytes.

Note: This product is for in vitro research use only