

Human Adenylate cyclase type 2 (ADCY2) ELISA Kit

Catalog No: #EK7719



Package Size: #EK7719-1 48T #EK7719-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Adenylate cyclase type 2 (ADCY2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AC2; FLJ16822; FLJ45092; HBAC2; KIAA1060; MGC133314; 3 ;5 -cyclic AMP synthetase ATP pyrophosphate-lyase adenylate cyclase 2 adenylate cyclase II adenylyl cyclase 2 type II adenylate cyclase
Accession No.	Q08462
Uniprot	Q08462
GeneID	108;
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:0.312-20 ng/mL

Sensitivity:0.126 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 ADCY2 in samples. An antibody specific for ADCY2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADCY2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADCY2 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 ADCY2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Adenylate cyclase type 2 is a member of the family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). This enzyme is insensitive to Ca(2+)/calmodulin, and is stimulated by the G protein beta and gamma subunit complex.

The amino acid sequence of ADCY2 displayed significant homology with ADCY8 in the highly conserved adenylyl cyclase domain (250 amino acids) found in the 3-prime cytoplasmic portion of all mammalian adenylyl cyclases. However, outside this domain, the homology was extremely low.Semiquantitative RT-PCR detected ADCY2 in all tissues examined except peripheral blood leukocytes. Highest expression was detected in brain, skeletal muscle, and testis.

Note: This product is for in vitro research use only