

Human Adenylate cyclase type 5 (ADCY5) ELISA Kit

Catalog No: #EK7720



Package Size: #EK7720-1 48T #EK7720-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Adenylate cyclase type 5 (ADCY5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AC5; adenylate cyclase; type V
Accession No.	O95622
Uniprot	O95622
GeneID	111;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.124 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 ADCY5 in samples. An antibody specific for ADCY5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADCY5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADCY5 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 ADCY5 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Ludwig and Seuwen (2002) cloned full-length ADCY5. EST database analysis revealed 2 alternative polyadenylation sites. The deduced protein contains 1,261 amino acids. Semiquantitative RT-PCR detected high expression of ADCY5 in heart and testis, moderate expression in brain, prostate, ovary, small intestine, and colon, and low expression in lung and liver. Gaudin et al. (1994) mapped the ADCY5 gene to chromosome 3. Using isotopic in situ hybridization, Haber et al. (1994) mapped the ADCY5 gene to 3q13.2-q21. By fluorescence in situ hybridization, Edelhoff et al. (1995) mapped the ADCY5 gene to human chromosome 3q13 and to mouse chromosome 16 in the B5 region. In both species, the gene maps close to GAP43 .

Note: This product is for in vitro research use only