

Human Adenylate cyclase type 9 (ADCY9) ELISA Kit

Catalog No: #EK7722



Package Size: #EK7722-1 48T #EK7722-2 96T

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Description

Product Name	Human Adenylate cyclase type 9 (ADCY9) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AC9; type IX ATP pyrophosphate-lyase
Accession No.	O60503
Uniprot	O60503
GeneID	115;
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:0.118 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 ADCY9 in samples. An antibody specific for ADCY9 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADCY9 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADCY9 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 ADCY9 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Adenylate cyclase is a membrane bound enzyme that catalyses the formation of cyclic AMP from ATP. It is regulated by a family of G protein-coupled receptors, protein kinases, and calcium. The type 9 adenylyl cyclase is a widely distributed adenylyl cyclase, and it is stimulated by beta-adrenergic receptor activation but is insensitive to forskolin, calcium, and somatostatin.Like mouse Adcy9, the predicted human ADCY9 protein contains 12 transmembrane domains, Asn-linked glycosylation sites, and cAMP-dependent protein kinase phosphorylation sites; however, these proteins differ in the C2b domain due to a frameshift in the human ADCY9 coding sequence relative to the coding sequence of mouse Adcy9. Northern blot analysis detected 8.5- and 6.3-kb ADCY9 transcripts in all human tissues examined.

Note: This product is for in vitro research use only