

Mouse Adenylate cyclase type 10 (ADCY10) ELISA Kit

Catalog No: #EK7718

Package Size: #EK7718-1 48T #EK7718-2 96T

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Description

Product Name	Mouse Adenylate cyclase type 10 (ADCY10) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	HCA2; RP1-313L4.2; SAC; SACI; Sacy; 3 ;5 -cyclic AMP synthetase AH-related protein ATP pyrophosphate-lyase adenylate cyclase 10 testicular soluble adenylyl cyclase (SAC)
Accession No.	Q8C0T9
Uniprot	Q8C0T9
GeneID	271639;
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:0.132 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:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate ADCY10 in samples. An antibody specific for ADCY10 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADCY10 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADCY10 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 ADCY10 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Adenylate cyclase type 10 is a protein encoded by this gene belongs to a distinct class of mammalian adenylyl cyclase that is soluble in testis but particulate in sperm and other tissues. It is unlike other mammalian adenylyl cyclases because it is insensitive to G protein or forskolin regulation and is directly regulated by bicarbonate. It is localized in the cytoplasm and to organelles and is thought to function as a general bicarbonate sensor throughout the body. It plays an important role in the generation of cAMP in spermatozoa, playing possible roles in sperm capacitation, hypermotility, and/or the acrosome reaction.Genetic variations in this gene are associated with absorptive hypercalciuria type 2. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Note: This product is for in vitro research use only