

Human Adenylate Cyclase 1, Brain ELISA Kit | ADCY1 elisa kit

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CATALOG #
AAA86627

REACTIVITY
Human

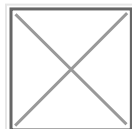
PRODUCT SYNONYMS

Adenylate Cyclase 1; Brain; Human Adenylate Cyclase 1; Brain ELISA Kit; ADCY1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	2.5-50ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This ADCY1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ADCY1. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ADCY1 elisa kit

Principle of the Assay: ADCY1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-ADCY1 antibody and an ADCY1-HRP conjugate. The assay sample and buffer are incubated together with ADCY1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ADCY1 concentration since ADCY1 from samples and ADCY1-HRP conjugate compete for the anti-ADCY1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ADCY1 from the sample, fewer sites are left to bind ADCY1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ADCY1 concentration in each sample is interpolated from this standard curve.

Product Categories/Family for ADCY1 elisa kit

[Signal Transduction](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	31083193
NCBI GeneID	107

NCBI Accession #	NP_066939.1
NCBI GenBank Nucleotide #	NM_021116.2
Molecular Weight	123,440 Da
NCBI Official Full Name	adenylate cyclase type 1 isoform 1
NCBI Official Synonym Full Names	adenylate cyclase 1 (brain)
NCBI Official Symbol	ADCY1
NCBI Official Synonym Symbols	AC1; DFNB44
NCBI Protein Information	adenylate cyclase type 1; adenylyl cyclase; adenylyl cyclase 1; adenylate cyclase type I; ATP pyrophosphate-lyase 1; 3',5'-cyclic AMP synthetase; Ca(2+)/calmodulin-activated adenylyl cyclase
UniProt Protein Name	Adenylate cyclase type 1
UniProt Gene Name	ADCY1
UniProt Entry Name	ADCY1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/adcy1-human-elisa-kits/adenylate-cyclase-1-brain/86627>