

Human Adenylate Cyclase Type 9 (ADCY9) ELISA Kit | ADCY9 elisa kit

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CATALOG #
AAA331121

REACTIVITY
Human

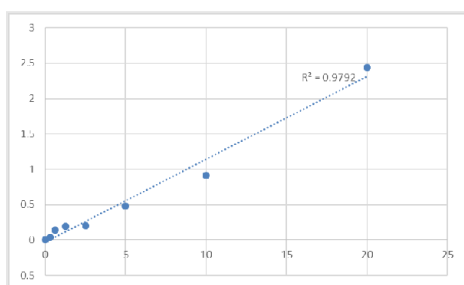
PRODUCT SYNONYMS

Adenylate Cyclase Type 9 (ADCY9); Human Adenylate Cyclase Type 9 (ADCY9) ELISA Kit; ADCY9; AC9; type IX ATP pyrophosphate-lyase; ADCY9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Adenylate cyclase type 9 (ADCY9) ELISA Kit has high sensitivity and excellent specificity for detection of Human ADCY9. No significant cross-reactivity or interference between Human ADCY9 and analogues was observed.
Sequence Length	1353
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Adenylate cyclase type 9 (ADCY9) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ADCY9 elisa kit	Description: This Human Adenylate cyclase type 9 (ADCY9) ELISA Kit 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 any ADCY9 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. Background: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50959205
NCBI GeneID	115
NCBI Accession #	NP_001107.2
NCBI GenBank Nucleotide #	NP_001107.2
UniProt Accession #	O60503
NCBI Official Full Name	adenylate cyclase type 9
NCBI Official Synonym Full Names	adenylate cyclase 9
NCBI Official Symbol	ADCY9
NCBI Official Synonym Symbols	AC9; ACIX
NCBI Protein Information	adenylate cyclase type 9
UniProt Protein Name	Adenylate cyclase type 9
UniProt Gene Name	ADCY9
UniProt Synonym Gene Names	KIAA0520
UniProt Entry Name	ADCY9_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.