Adenylate Cyclase 10, Soluble (ADCY10) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	Adenylate Cyclase 10, Soluble (ADCY10), ELISA Kit
Full Product Name	Monkey Adenylate Cyclase 10, Soluble ELISA Kit
Product Gene Name	ADCY10 elisa kit
Species Reactivity	Monkey
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	187,149 Da
OMIM	143870
3D Structure	ModBase 3D Structure for Q96PN6
Related Product Information for ADCY10 elisa kit	MBS097046 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Adenylate Cyclase 10, Soluble (ADCY10) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ADCY10. The ELISA analytical biochemical technique of the MBS097046 kit is based on ADCY10 antibody-ADCY10 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADCY10 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADCY10. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of ADCY10 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADCY10. It may not necessarily be applicable to this product.

NCBI GI #	209976994
NCBI GeneID	55811
NCBI Accession #	NP_060887.2
UniProt Primary Accession #	Q96PN6
UniProt Secondary Accession #	O95558; Q5R329; Q5R330; Q8WXV4; Q9NNX0; B4DZF0; F5GWS5
UniProt Related Accession #	Q96PN6
GenBank Nucleotide #	NM_018417.5
NCBI Official Full Name	adenylate cyclase type 10 isoform 1
NCBI Official Synonym Full Names	adenylate cyclase 10 (soluble)
NCBI Official Symbol	ADCY10
NCBI Official Synonym Symbols	SAC; HCA2; SACI; Sacy; hsAC
UniProt Protein Name	Adenylate cyclase type 10
UniProt Synonym Protein Names	AH-related protein; Adenylate cyclase homolog; Germ cell soluble adenylyl cyclase; hsAC; sAC; Testicular soluble adenylyl cyclase

Protein Family	Adenylate cyclase
UniProt Gene Name	ADCY10
UniProt Synonym Gene Names	SAC; hsAC; sAC
UniProt Entry Name	ADCYA_HUMAN
NCBI Protein Information	adenylate cyclase type 10; AH-related protein; ATP pyrophosphate-lyase; 3',5'-cyclic AMP synthetase; germ cell soluble adenylyl cyclase; testicular soluble adenylyl cyclase (SAC)
NCBI Summary for ADCY10	The protein encoded by this gene belongs to a distinct class of adenylyl cyclases that is soluble and insensitive to G protein or forskolin regulation. Activity of this protein is regulated by bicarbonate. Variation at this gene has been observed in patients with absorptive hypercalciuria. Alternatively spliced transcript variants encoding different isoforms have been observed. There is a pseudogene of this gene on chromosome 6. [provided by RefSeq, Jul 2014]
UniProt Comments for ADCY10	SAC: Soluble adenylyl cyclase that has a critical role in mammalian spermatogenesis. Produces the cAMP which mediates in part the cAMP-responsive nuclear factors indispensable for maturation of sperm in the epididymis. Induces capacitation, the maturational process that sperm undergo prior to fertilization. May be the bicarbonate sensor. Involved in ciliary beat regulation. Genetic variations in ADCY10 are a cause of susceptibility to hypercalciuria absorptive type 2 (HCA2). Absorptive hypercalciuria is a common type of hypercalciuria, a condition characterized by excessive urinary calcium excretion. Absorptive hypercalciuria is due to gastrointestinal hyperabsorption of calcium and is a frequent cause of calcium oxalate nephrolithiasis. Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Nucleotide Metabolism - purine; Lyase; Adenylyl cyclase; EC 4.6.1.1 Chromosomal Location of Human Ortholog: 1q24 Cellular Component: cytoskeleton; growth cone; cell soma; perinuclear region of cytoplasm; apical part of cell; axon; cytoplasm; dendrite; plasma membrane; cytosol Molecular Function: manganese ion binding; magnesium ion binding; ATP binding; ATPase binding; adenylate cyclase activity Biological Process: positive regulation of apoptosis; spermatogenesis; cAMP biosynthetic process Disease: Hypercalciuria, Absorptive, 2
Research Articles on ADCY10	**1.** sAC is a regulator of gene expression involved in aldosterone signaling and an important regulator of endothelial stiffness.
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