ADCY10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ADCY10, Polyclonal Antibody
Full Product Name	ADCY10 Antibody, Biotin Conjugated
Product Gene Name	anti-ADCY10 antibody
Product Synonym Names	Adenylate cyclase type 10 (EC 4.6.1.1) (AH-related protein) (Adenylate cyclase homolog) (Germ cell soluble adenylyl cyclase) (hsAC) (sAC) (Testicular soluble adenylyl cyclase); ADCY10; SAC
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purity/Purification	Antigen Affinity Purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: ADCY10 (MBS7134447) Biotin Conjugated Antibody: ADCY10 (MBS7134450)
Molecular Weight	187,149 Da
OMIM	143870
3D Structure	ModBase 3D Structure for Q96PN6
Immunogen	Recombinant Human Adenylate cyclase type 10 protein (897-1136AA)
Immunogen Species	Human
Conjugate	Biotin
Product Categories/Family for anti-ADCY10 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ADCY10 antibody	ELISA (EIA)
Related Product Information for anti-ADCY10 antibody	MBS7134450 is an antibody targeting ADCY10. Also known as ADCY10 Antibody, Biotin Conjugated. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-ADCY10 antibody 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: Adenylyl cyclase; Nucleotide Metabolism - purine; Lyase; EC 4.6.1.1 Chromosomal Location of Human Ortholog: 1q24 Cellular Component: growth cone; cytoskeleton; cell soma; perinuclear region of cytoplasm; apical part of cell; axon; dendrite; cytoplasm; plasma membrane; cytosol Molecular Function: manganese ion binding; magnesium ion binding; ATPase binding; ATP binding; adenylate cyclase activity Biological Process: positive regulation of apoptosis; cAMP biosynthetic process; spermatogenesis 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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