

ADCY10 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP5862c

Product Information

Application FC, WB, E **Primary Accession** Q96PN6

Other Accession NP 001161221.1, NP 060887.2

Reactivity Human
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB22128
Calculated MW 187149
Antigen Region 557-583

Additional Information

Gene ID 55811

Other Names Adenylate cyclase type 10, AH-related protein, Adenylate cyclase homolog,

Germ cell soluble adenylyl cyclase, hsAC, sAC, Testicular soluble adenylyl

cyclase, ADCY10, SAC

Target/Specificity This ADCY10 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 557-583 amino acids from the Central

region of human ADCY10.

Dilution FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions ADCY10 Antibody (Center) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name ADCY10

Synonyms SAC

Function

Catalyzes the formation of the signaling molecule cAMP (PubMed: 12609998, PubMed:15659711, PubMed:24567411, PubMed:24616449, PubMed:25040695). May function as sensor that mediates responses to changes in cellular bicarbonate and CO(2) levels (PubMed:15659711, PubMed:17591988). Has a critical role in mammalian spermatogenesis by producing the cAMP which regulates cAMP-responsive nuclear factors indispensable for sperm maturation in the epididymis. Induces capacitation, the maturational process that sperm undergo prior to fertilization (By similarity). Involved in ciliary beat regulation (PubMed:17591988).

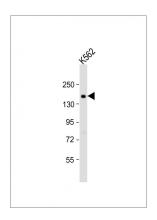
Cellular Location

Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton. Cytoplasm, perinuclear region. Nucleus. Cell projection, cilium. Cytoplasm Mitochondrion. Note=Distributed to subcellular compartments containing cAMP targets. Found as a plasma membrane-associated protein, protein concentrated in the perinuclear region and protein colocalized with actin or tubulin

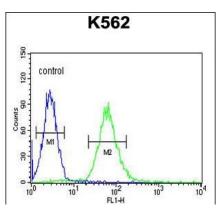
Tissue Location

Detected in airway epithelial cells and testis (at protein level) (PubMed:17591988). Weakly expressed in multiple tissues Expressed in brain, heart, kidney, liver, lung, pancreas, peripheral blood leukocytes, placenta, skeletal muscle, stomach, thymus, airway epithelial cells, duodenum, jejunum and ileum. Very low level of expression in bone.

Images



Anti-ADCY10 Antibody (Center) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 187 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ADCY10 Antibody (Center) (Cat. #AP5862c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

Sodium-hydrogen exchanger NHA1 and NHA2 control sperm motility and male fertility.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.