

**ADCY10 Antibody (Center) Blocking peptide**  
Synthetic peptide  
Catalog # BP5862c**Specification**

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**ADCY10 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [O96PN6](#)  
Other Accession [NP\\_001161221.1](#), [NP\\_060887.2](#)

**ADCY10 Antibody (Center) Blocking peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ADCY10 Antibody (Center) Blocking peptide - Protein Information**

Name ADCY10

Synonyms SAC

**Function**

Catalyzes the formation of the signaling molecule cAMP (PubMed:<a href="http://www.uniprot.org/citations/12609998" target="\_blank">12609998</a>, PubMed:<a href="http://www.uniprot.org/citations/15659711" target="\_blank">15659711</a>, PubMed:<a href="http://www.uniprot.org/citations/24567411" target="\_blank">24567411</a>, PubMed:<a href="http://www.uniprot.org/citations/24616449" target="\_blank">24616449</a>, PubMed:<a href="http://www.uniprot.org/citations/25040695" target="\_blank">25040695</a>). May function as sensor that mediates responses to changes in cellular bicarbonate and CO(2) levels (PubMed:<a href="http://www.uniprot.org/citations/15659711" target="\_blank">15659711</a>, PubMed:<a href="http://www.uniprot.org/citations/17591988" target="\_blank">17591988</a>). 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:<a href="http://www.uniprot.org/citations/17591988" target="\_blank">17591988</a>).

**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.

**ADCY10 Antibody (Center) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**ADCY10 Antibody (Center) Blocking peptide - Images**