

Rabbit ADCY10 Polyclonal Antibody | anti-ADCY10 antibody

ADCY10 Antibody

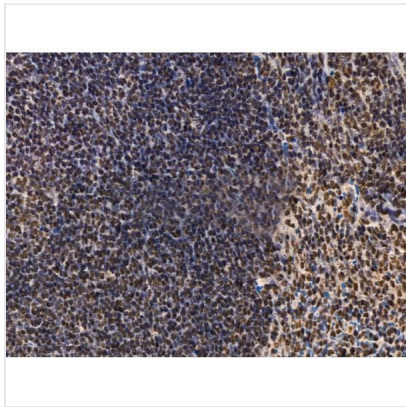
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31243	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Bovine(88%), Sheep(88%), Rabbit(88%), Dog(88%)	ELISA

PRODUCT SYNONYMS

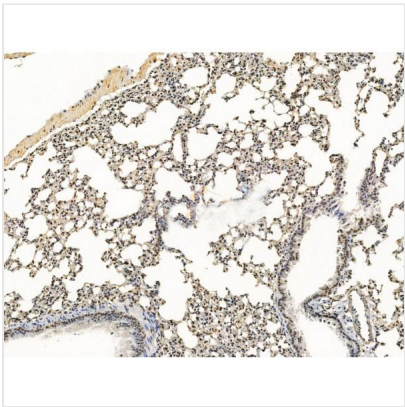
ADCY10; Polyclonal Antibody; ADCY10 Antibody; 3'; 5'-cyclic AMP synthetase; Adenylate cyclase 10 (soluble); Adenylate cyclase 10; Adenylate cyclase homolog; AH related protein; ATP pyrophosphate-lyase; Germ cell soluble adenylyl cyclase; HCA2; hsAC; hypercalciuria absorptive; SAC; SACI; Sacy; Soluble adenylyl cyclase; testicular soluble adenylyl cyclase (SAC); Testicular soluble adenylyl cyclase; anti-ADCY10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Bovine(88%), Sheep(88%), Rabbit(88%), Dog(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	ADCY10 Antibody detects endogenous levels of total ADCY10.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1610
Applicable Applications for anti-ADCY10 antibody	ELISA
Application Notes	WB: 1:500-1:2000 IF: 1:100-1:500 ICC: 1:100-1:500 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human ADCY10, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry-Paraffin)
AAA31243 at 1/100 staining Mouse spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



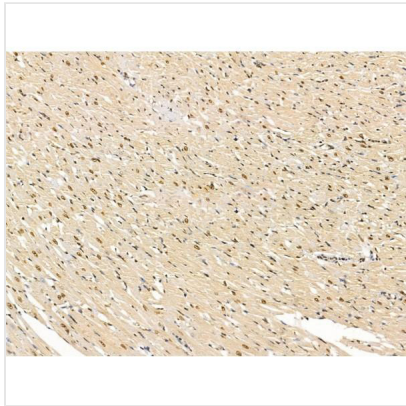
IHC (Immunohistochemistry-Paraffin)
AAA31243 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



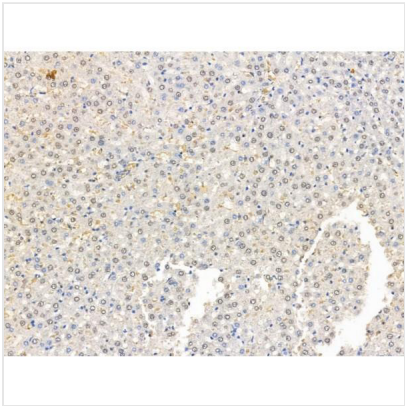
IHC (Immunohistochemistry-Paraffin)
AAA31243 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31243 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31243 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31243 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ADCY10 antibody	Function: Catalyzes the formation of the signaling molecule cAMP (PubMed:12609998, PubMed:15659711, PubMed:24616449, PubMed:25040695, PubMed:24567411). 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). Post Translational Modifications: Cleavage may occur to generate the active 48 kDa form. Subcellular 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 Specificity: 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. Similarity: The N-terminal guanylate cyclase domains are required for enzyme activity. Fragments or isoforms containing the first 470 amino acid residues are fully active.Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	209976994
NCBI GeneID	55811
NCBI Accession #	NP_060887.2
NCBI GenBank Nucleotide #	NP_060887.2
UniProt Accession #	Q96PN6
Molecular Weight	Observed Molecular Weight: (Observed)187kD. Predicted Molecular Weight: (Calculated)187kDa.
NCBI Official Full Name	adenylate cyclase type 10 isoform 1
NCBI Official Synonym Full Names	adenylate cyclase 10
NCBI Official Symbol	ADCY10
NCBI Official Synonym Symbols	SAC; HCA2; SACI; Sacy; hsAC; HEL-S-7a
NCBI Protein Information	adenylate cyclase type 10
UniProt Protein Name	Adenylate cyclase type 10
UniProt Gene Name	ADCY10
UniProt Synonym Gene Names	SAC; hsAC; sAC
UniProt Entry Name	ADCYA_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.