

Rabbit anti-Human ADCY10 Polyclonal Antibody | anti-ADCY10 antibody

ADCY10 Antibody (Center)

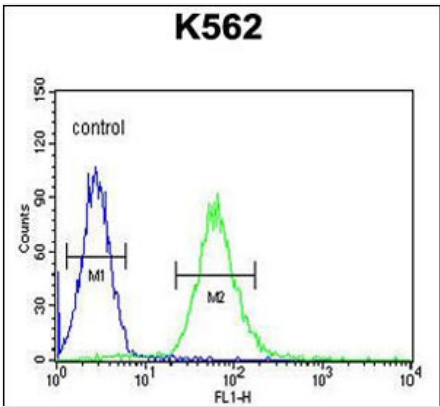
CATALOG # AAA286714	HOST Rabbit	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay, ELISA, Western Blot
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PRODUCT SYNONYMS

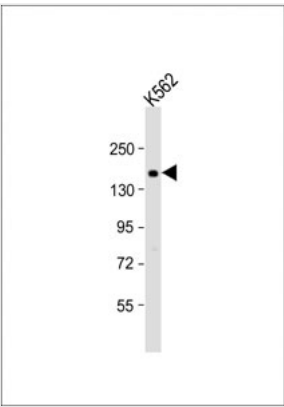
ADCY10; Polyclonal Antibody; ADCY10 Antibody (Center); Adenylate cyclase type 10; AH-related protein; Adenylate cyclase homolog; Germ cell soluble adenylyl cyclase; hsAC; sAC; Testicular soluble adenylyl cyclase; SAC; anti-ADCY10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	557-583
Sequence Length	1,457
Applicable Applications for anti-ADCY10 antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Clone Names	RB22128
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).
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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
ADCY10 Antibody (Center) (Cat. #AAA286714) 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.



WB (Western Blot)
Anti-ADCY10 Antibody (Center) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 ug per lane.Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 187 kDaBlocking/Dilution buffer: 5% NFD/MTBST.

ADDITIONAL INFORMATION

Product Categories/Family for anti-ADCY10 antibody	Cancer; Signal Transduction
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NCBI AND UNIPROT INFORMATION

NCBI GI #	268370055
NCBI GeneID	55811
NCBI Accession #	NP_001161221.1; NP_060887.2
NCBI GenBank Nucleotide #	NM_001167749.2
UniProt Accession #	Q96PN6; O95558; Q5R329; Q5R330; Q8WXV4; Q9NNX0; B4DZF0; F5GWS5
Molecular Weight	187149
NCBI Official Full Name	adenylate cyclase type 10 isoform 2
NCBI Official Synonym Full Names	adenylate cyclase 10 (soluble)
NCBI Official Symbol	ADCY10
NCBI Official Synonym Symbols	SAC; HCA2; SACI; Sacy; hsAC
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.