

Rabbit anti-Human ADCY9 Polyclonal Antibody | anti-ADCY9 antibody

ADCY9 Antibody

CATALOG # AAA325291	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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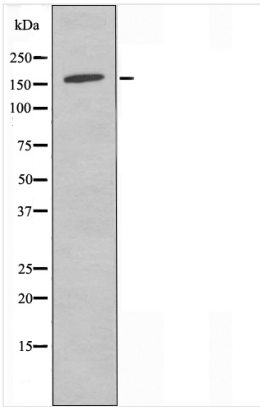
PRODUCT SYNONYMS

ADCY9; Polyclonal Antibody; ADCY9 Antibody; ADCY 9; ADCY9_HUMAN; Adenylate cyclase 9; Adenylate cyclase type 9; Adenylate cyclase type IX; Adenylyl cyclase 9; ATP pyrophosphate lyase 9; ATP pyrophosphate-lyase 9; KIAA0520; Type IX adenylyl cyclase; Type IX ATP pyrophosphate lyase; anti-ADCY9 antibody

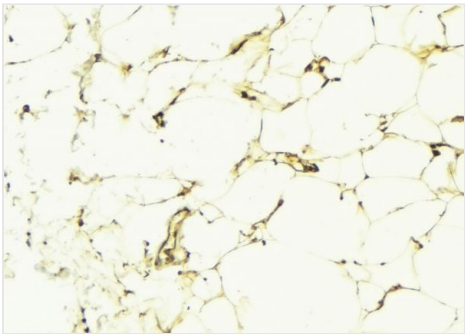
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	ADCY9 antibody detects endogenous levels of total ADCY9
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1353
Applicable Applications for anti-ADCY9 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	Detected in skeletal muscle, pancreas, lung, heart, kidney, liver, brain and placenta (PubMed:9628827, PubMed:10987815). Expressed in multiple cells of the lung, with expression highest in airway smooth muscle (PubMed:12972952).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from HuvEc cells, using ADCY9 antibody.



IHC (Immunohistochemistry)
AAA325291 at 1/100 staining Human 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 antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ADCY9 antibody	Function: Adenylyl cyclase that catalyzes the formation of the signaling molecule cAMP in response to activation of G protein-coupled receptors (PubMed:9628827, PubMed:12972952, PubMed:15879435, PubMed:10987815). Contributes to signaling cascades activated by CRH (corticotropin-releasing factor), corticosteroids and beta-adrenergic receptors (PubMed:9628827). Similarity: The protein contains two modules with six transmembrane helices each; both are required for catalytic activity. Isolated N-terminal or C-terminal guanylate cyclase domains have no catalytic activity, but when they are brought together, enzyme activity is restored. The active site is at the interface of the two domains. Both contribute substrate-binding residues, but the catalytic metal ions are bound exclusively via the N-terminal guanylate cyclase domain. Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50959205
NCBI GeneID	115
NCBI Accession #	NP_001107.2
NCBI GenBank Nucleotide #	NM_001116.3
UniProt Accession #	O60503; O60273; Q4ZHT9; Q4ZIR5; Q9BWT4; Q9UGP2; A7E2V5; A7E2X2; D3DUD1
Molecular Weight	Observed: 150 kD Predicted: 151 kDa
NCBI Official Full Name	adenylate cyclase type 9
NCBI Official Synonym Full Names	adenylate cyclase 9
NCBI Official Symbol	ADCY9
NCBI Official Synonym Symbols	AC9; ACIX
NCBI Protein Information	adenylate cyclase type 9
UniProt Protein Name	Adenylate cyclase type 9
UniProt Gene Name	ADCY9
UniProt Synonym Gene Names	KIAA0520; ACIX1 PublicationManual assertion based on opinion iniRef.4; AC91 PublicationManual assertion based on opinion iniRef.3

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.

