

Rabbit anti-Human A Cyclase I Polyclonal Antibody | anti-ADCY1 antibody

A Cyclase I Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322470	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

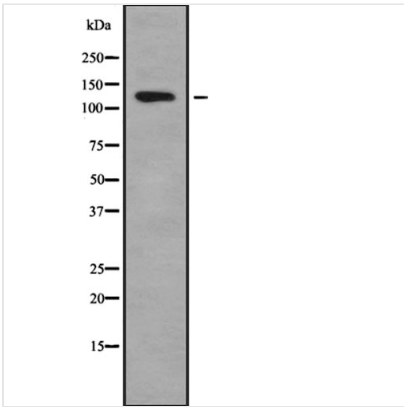
PRODUCT SYNONYMS

A Cyclase I; Polyclonal Antibody; A Cyclase I Antibody; Adenylate cyclase 1; fetal brain; type I; 3'; 5'-cyclic AMP synthetase; AC1; Adcy1; ADCY1_HUMAN; adenyl cyclase; adenylate cyclase 1 (brain); Adenylate cyclase type 1; Adenylate cyclase type I; Adenylyl cyclase 1; ATP pyrophosphate lyase; ATP pyrophosphate-lyase 1; Brain adenylate cyclase 1; Ca(2+)/calmodulin-activated adenylyl cyclase; deafness; autosomal recessive 44; DFNB44; anti-ADCY1 antibody

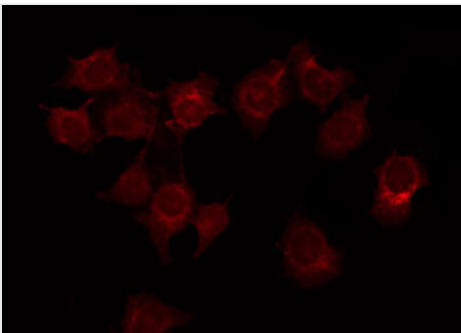
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	A Cyclase I antibody detects endogenous levels of total A Cyclase I
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	1119
Applicable Applications for anti-ADCY1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human A Cyclase I
Subcellular Location	Membrane.
Tissue Specificity	Detected in zona glomerulosa and zona fasciculata in the adrenal gland (at protein level) (PubMed:11549699). Brain, retina and adrenal medulla.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
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 A Cyclase I using COLO205 whole cell lysates



IF (Immunofluorescence)
AAA322470 staining COLO205 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ADCY1 antibody	Function: Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Mediates responses to increased cellular Ca2+/calmodulin levels (By similarity). May be involved in regulatory processes in the central nervous system. May play a role in memory and learning. Plays a role in the regulation of the circadian rhythm of daytime contrast sensitivity probably by modulating the rhythmic synthesis of cyclic AMP in the retina (By similarity). Subunit Structure: Interacts with CALM. Post-translational Modifications: N-glycosylated. 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 #	31083193
NCBI GeneID	107
NCBI Accession #	NP_066939.1
NCBI GenBank Nucleotide #	NM_021116.3
UniProt Accession #	Q08828; Q75MI1; A4D2L8
Molecular Weight	Observed: 130 kDa Predicted: 124 kDa
NCBI Official Full Name	adenylate cyclase type 1 isoform 1
NCBI Official Synonym Full Names	adenylate cyclase 1
NCBI Official Symbol	ADCY1
NCBI Official Synonym Symbols	AC1; DFNB44
NCBI Protein Information	adenylate cyclase type 1
UniProt Protein Name	Adenylate cyclase type 1
UniProt Gene Name	ADCY1

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/a-cyclase-i-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/322470>