

Rabbit ADCY5/6 Polyclonal Antibody | anti-ADCY5 antibody

ADCY5/6 Antibody

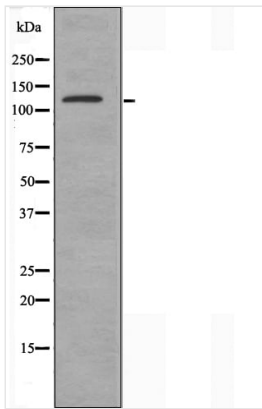
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324197	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ADCY5/6; Polyclonal Antibody; ADCY5/6 Antibody; AC 5; AC5; ADCY 5; Adcy5; ADCY5_HUMAN; Adenylate cyclase type 5; Adenylate cyclase type V; Adenylyl cyclase 5; ATP pyrophosphate lyase 5; ATP pyrophosphate-lyase 5; AC6; ACVI; ADCY 6; Adcy6; ADCY6_HUMAN; ADCYB; Adenylate cyclase 6; Adenylate cyclase type 6; Adenylate cyclase type VI; Adenylyl cyclase 6; ATP pyrophosphate lyase 6; ATP pyrophosphate-lyase 6; Ca(2+) inhibitable adenylyl cyclase; Ca(2+)-inhibitable adenylyl cyclase; DKFZp779F075; EC 4.6.1.1; KIAA0422; anti-ADCY5 antibody

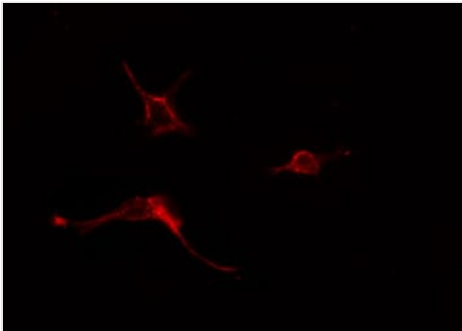
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ADCY5/6 antibody detects endogenous levels of total ADCY5/6
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	911
Applicable Applications for anti-ADCY5 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	Detected in pancreas islets (at protein level). Detected in pancreas islets.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (86%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



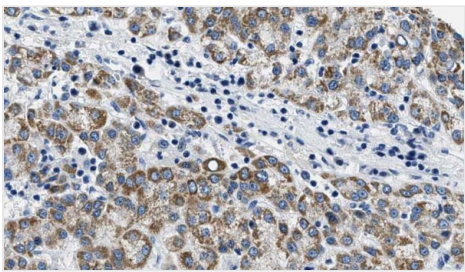
WB (Western Blot)

Western blot analysis of extracts from COLO205 cells, using ADCY5 antibody.



IF (Immunofluorescence)

AAA324197 staining COLO205 cells 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) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA324197 at 1/100 staining Human liver cancer 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-ADCY5 antibody	Function: Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling (PubMed:15385642, PubMed:26206488, PubMed:24700542). Mediates signaling downstream of ADRB1 (PubMed:24700542). Regulates the increase of free cytosolic Ca2+ in response to increased blood glucose levels and contributes to the regulation of Ca2+-dependent insulin secretion (PubMed:24740569). Subunit Structure: Interacts with GNAS, GNB1 and GNG2 (PubMed:26206488). Part of a complex containing AKAP5, ADCY6, PDE4C and PKD2 (By similarity). Interacts with RAF1 (PubMed:15385642). Post-translational Modifications: Phosphorylated by RAF1. 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 #	314122162
NCBI GeneID	111
NCBI Accession #	NP_001186571.1
NCBI GenBank Nucleotide #	NM_001199642.1
UniProt Accession #	O95622; Q7RTV7; Q8NFM3; B7Z8A6

Molecular Weight	Observed: 138 kD Predicted: 139 kDa
NCBI Official Full Name	adenylate cyclase type 5 isoform 2
NCBI Official Synonym Full Names	adenylate cyclase 5
NCBI Official Symbol	ADCY5
NCBI Official Synonym Symbols	AC5; FDFM
NCBI Protein Information	adenylate cyclase type 5
UniProt Protein Name	Adenylate cyclase type 5
UniProt Gene Name	ADCY5
UniProt Synonym Gene Names	AC5

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/adc5-6-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/324197>