

ARG10772 anti-ADCY6 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ADCY6
Tested Reactivity	Hu, Ms, Rat
Tested Application	Confocal, ELISA, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ADCY6
Species	Rat
Immunogen	KLH-conjugated synthetic peptide around aa. 13-27 of Rat ADCY6. (DERKTAWGERNGQKR)
Conjugation	Un-conjugated
Alternate Names	Ca; LCCS8; ATP pyrophosphate-lyase 6; Adenylate cyclase type VI; AC6; Adenylate cyclase type 6; EC 4.6.1.1; Adenylyl cyclase 6; 2+

Application Instructions

Application table	Application	Dilution
	Confocal	1:100 - 1:200
	ELISA	1:10000
	ICC/IF	1:100 - 1:200
	IHC-P	1:100 - 1:200
	IP	Assay-dependent
	WB	1:500

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	Tris-Glycine Buffer (pH 7.4 - 7.8), Hepes, 0.02% Sodium azide, 30% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	30% Glycerol and 0.5% BSA
Concentration	0.5 mg/ml

Storage instruction

For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

Adcy6

Gene Full Name

adenylate cyclase 6

Background

This gene encodes a member of the adenylyl cyclase family of proteins, which are required for the synthesis of cyclic AMP. All members of this family have an intracellular N-terminus, a tandem repeat of six transmembrane domains separated by a cytoplasmic loop, and a C-terminal cytoplasmic domain. The two cytoplasmic regions bind ATP and form the catalytic core of the protein. Adenylyl cyclases are important effectors of transmembrane signaling pathways and are regulated by the activity of G protein coupled receptor signaling. This protein belongs to a small subclass of adenylyl cyclase proteins that are functionally related and are inhibited by protein kinase A, calcium ions and nitric oxide. A mutation in this gene is associated with arthrogryposis multiplex congenita. [provided by RefSeq, May 2015]

Function

Membrane-bound, calcium-inhibitable adenylyl cyclase. [UniProt]

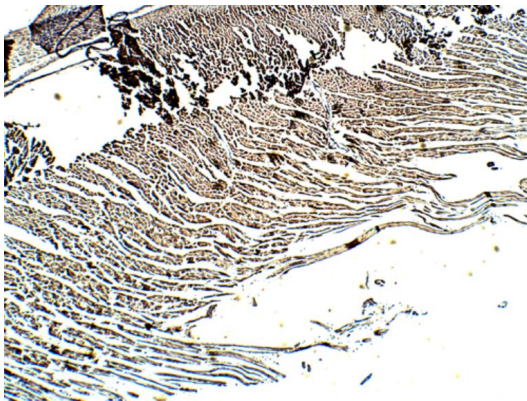
Calculated Mw

131 kDa

PTM

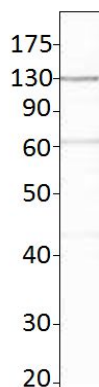
Phosphorylation by RAF1 increases enzyme activity. Phosphorylation by PKA at Ser-662 inhibits the GNAS-mediated increase in catalytic activity. Phosphorylation by PKC at Ser-556, Ser-662 and Thr-919 inhibits catalytic activity.

Images



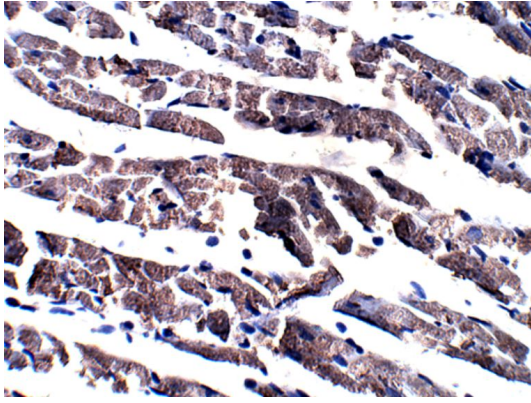
ARG10772 anti-ADCY6 antibody IHC image

Immunohistochemistry: Rat heart tissue section stained with ARG10772 anti-ADCY6 antibody at 1:100 dilution.



ARG10772 anti-ADCY6 antibody WB image

Western blot: Recombinant ADCY6 protein stained with ARG10772 anti-ADCY6 antibody at 1:500 dilution.



ARG10772 anti-ADCY6 antibody IHC image

Immunohistochemistry: Rat heart tissue section stained with ARG10772 anti-ADCY6 antibody at 1:100 dilution.