

Rabbit Polyclonal Anti-ADCY6 antibody

Catalog Number: PAC-601AP

Lot Number:

General Information

Product	ADCY6 Antibody
Description	Adenylate cyclase type 6 Antibody Affinity Purified
Accession #	Uniprot: Q03343 GenBank: AAD29856.1
Verified Applications	CM, ELISA, ICC, IF, IHC, IP, WB
Species Cross Reactivity	Human, Mouse, Rat
Host	Rabbit
Immunogen	Synthetic peptide corresponding to N-terminal amino acids 13-27 of rat Particulate Adenylyl Cyclase 6 protein. Peptide was covalently modified and conjugated to KLH.
	Sequence: DERKTAWGERNGQKR
Alternative Nomenclature	AC6 antibody, ADCYB antibody, ATP pyrophosphate lyase 6 antibody, Ca(2+) inhibitable adenylyl cyclase antibody

Physical Properties

Quantity	100 µg
Volume	200 µl
Form	Affinity Purified Immunoglobulins
Purity	Antigen Affinity Purified
Immunoglobulin & Concentration	0.6 mg/ml IgG in antibody stabilization buffer
Storage	Store at -20°C for long term storage.

Recommended Dilutions

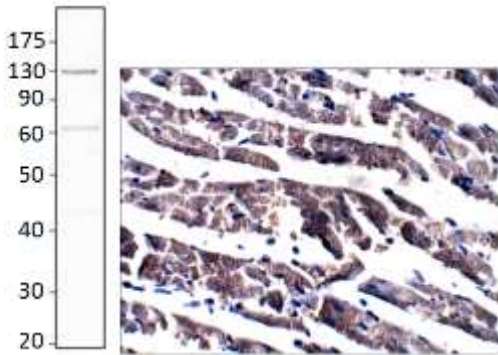
Confocal Microscopy	1:100-1:200
DOT Blot	1:10,000
ELISA	1:10,000
Immunocytochemistry	1:100-1:200
Immunofluorescence	1:100-1:200
Immunohistochemistry	1:100-1:200
Immunoprecipitation	1:200
Western Blot	1:500

Related Products

Catalog

BIOTIN-Conjugated	PAC6-BIOTIN
FITC-Conjugated	PAC6-FITC
Antigenic Blocking Peptide	P-PAC6
Western Blot Positive Control	PC-PAC6

Application Verification:



WB of PAC-601AP with PC-PAC6. 1:500 antibody, dilution in DiluOBuffer. Apparent MW is 130 kDa.

Rat Heart- Particulate Adenylate Cyclase 6
Primary Antibody: PAC-601AP; 1:100 dilution in IHC Blocking Buffer. DAB (brown) staining and Hematoxylin QS (blue) counterstain. 40X magnification on Leica DM4000.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

Overview:

The membrane-bound adenylyl cyclases (AC) represent one of the major families of effector enzymes for G protein-coupled receptors. Most of the adenylate cyclase genes are comprised of 11-26 exons and distributed over a q6-430 kb. Both AC5 and AC6 enzymes play an important role in synaptic plasticity by coordinating overlapping synaptic inputs from Gs and Gi coupled receptor stimulation (1). AC-5 resembles the AC-6 adenylyl cyclase in its amino acid sequence but becomes divergent at N and C-terminal ends. The AC5 and AC6 proteins are co-localized in most of the visual organs (photoreceptor cells) are associated with other protein complexes.

The Anti-AC6-selective antibodies were generated against conserved sequences near the N-terminal end of the protein that are unique to AC6-protein. The AC6-selective antibodies are affinity purified against immobilized antigen based affinity chromatography which yielded epitope-specific antibodies. The isolated antibodies were then stabilized in antibody stabilization buffer for long-term storage. Antigenic blocking peptides (P-PAC6) and western blot positive controls in ready to use SDS-sample buffer (PC-PAC6) are available. The AC6 antibodies label a 130-140 kDa protein in Western blot positive control and in rat olfactory bulb. Antibodies can be conjugated to fluorophores or other secondary enzymes upon request at nominal cost. For a complete listing of all FabGennix antibodies and lab services, please visit <http://fabgennix.com>.

References:

1. Baker LP; Nielsen MD; Impey S; Hacker BM; Poser SW; Chan MY; Storm DR. J Neurosci. 19, 180-192, 1999.

For users who may require large amounts of the products listed above, please inquire about bulk material discounts.
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.