

Rabbit anti-Rat, Mouse ADCY5 Antibody | anti-ADCY5 antibody

ADCY5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75708	Rabbit	Rat, Mouse	Western Blot, Immunoprecipitation, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA, Dot Blot

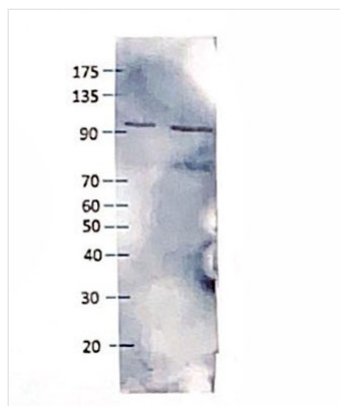
PRODUCT SYNONYMS

ADCY5; ADCY5 Antibody; anti-ADCY5 antibody

PRODUCT SPECIFICATIONS

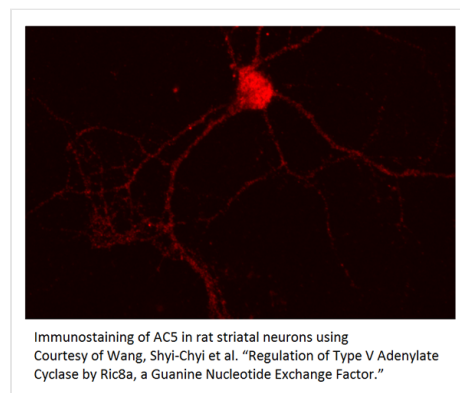
Host	Rabbit
Reactivity	Rat, Mouse
Form/Format	Affinity Purified Immunoglobulins
Applicable Applications for anti-ADCY5 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, DB (Dot Blot), CM (Confocal Microscopy)
Immunogen	Synthetic peptide corresponding to unique amino acid sequence on rat Particulate Adenylyl Cyclase 5 protein.
Preparation and Storage	Store at -20°C for long term storage.

IMAGES



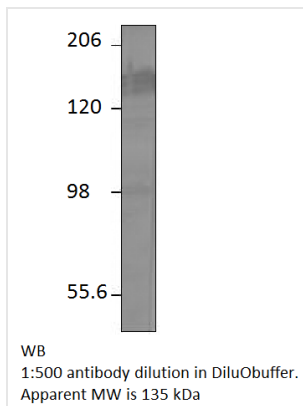
Application Data

WB of AAA75708 with 1 :500 antibody dilution in DiluObuffer. Apparent MW is 135 kDa



Application Data

Immunostaining of AC5 in rat striatal neurons using
Courtesy of Wang, Shyi-Chyi et al. "Regulation of Type V Adenylate Cyclase by Ric8a, a Guanine Nucleotide Exchange Factor."



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-ADCY5 antibody	The membrane-bound adenylyl cyclases (ACs) represent one of the major families of effector enzymes for G protein-coupled receptors. Nine human AC isoforms (AC-1 through AC-9), encoded by separate genes, have been identified up to now (1). Most of the adenylate cyclase genes are comprised of 11-26 exons and distributed over a q6-430 kb. Majority of the adenylate cyclases previously described are expressed discretely in defined peripheral tissues, the type 4 adenylate cyclase (AC4) is apparently expressed in a variety of peripheral tissues and in the central nervous system, mainly in olfactory system. AC-5 is localized on photoreceptor cells and are also designated as GCI and GC2. The AC-S protein resembles the other adenylyl cyclases in its predicted and proposed structure. AC-5 resembles the type 6 (AC-6) adenylyl cyclase in its amino acid sequence but becomes divergent at N and C-terminal ends. The AC5 and AC6 proteins are colocalized in most of the visual organs (photoreceptor cells) are associated with other protein complexes. Both AC5 and AC6 enzymes play an important role in synaptic plasticity by coordinating overlapping synaptic inputs from Gs and Gi coupled receptor stimulation (3). The Anti-AC5-selective antibodies were generated against conserved sequences alar near the C-terminal end of the protein that are unique to AC5-protein. The AC5-selective antibodies are affinity purified against immobilized antigen based affinity chromatography which yielded epitope-specific antibodies. The AC4 antibodies label a 127-130 kDa protein in Western blot positive control and in rat olfactory bulb. Anti-AC5-selective antibodies are also available in affinity-purified form for confocal, WB and IHC analyses.
Product Categories/Family for anti-ADCY5 antibody	Primary Antibodies; Signal Transduction; Second Messengers; cAMP; ADCY5 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	1758331
NCBI GeneID	64532
UniProt Accession #	Q04400
NCBI Official Full Name	Rattus norvegicus adenylyl cyclase type V mRNA, complete cds
NCBI Official Synonym Full Names	adenylate cyclase 5
NCBI Official Symbol	Adcy5
NCBI Protein Information	adenylate cyclase type 5
UniProt Protein Name	Adenylate cyclase type 5
UniProt Gene Name	Adcy5
UniProt Entry Name	ADCY5_RAT

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.

