

Chicken anti-Mouse, Rat Adenylate Cyclase III/ADCY3 Polyclonal Antibody | anti-ADCY3 antibody

Adenylate Cyclase III/ADCY3

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76703	Chicken	Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry

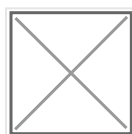
PRODUCT SYNONYMS

Adenylate Cyclase III/ADCY3; Polyclonal Antibody; anti-ADCY3 antibody

PRODUCT SPECIFICATIONS

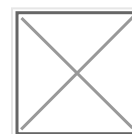
Host	Chicken
Reactivity	Mouse, Rat
Clonality	Polyclonal
Form/Format	Liquid. Affinity purified antibody at 1.0mg/mL in 50% PBS, 50%glycerol plus 5mM NaN3
Applicable Applications for anti-ADCY3 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	C-terminal peptide of rat ACIII, PAAFPNGSSVTLPHQVVDNP with a Cys added to the N-terminus to allow coupling to KLH.
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for sixmonths without detectable loss of activity. The antibody can be stored at 2 degree - 8 degree C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of different tissue lysates using chicken pAb to ACIII, AAA76703, dilution 1:1,000, in green. On the left blot: [1] protein standard, [2] rat hippocampus, [3] mouse hippocampus, [4] mouse frontal cortex, and [5] cow frontal cortex. On the right blot: [6] protein standard, [7] non-transfected HEK293 cells, and [8] HEK293 cells transfected with DNA expressing Myc-DDK tagged full length human adenylate cyclase III from the appropriate cDNA (ACIII).



IF (Immunofluorescence)

Immunofluorescence analysis of rat cortex section stained with chicken pAb to adenylate cyclase III, AAA76703, dilution 1:10,000, in red and costained with mouse mAb to the myelin and oligodendrocyte marker CNP in green. The blue is Hoechst staining of nuclear DNA. The ACIII antibody reveals neuronal cilia while the CNP antibody stains oligodendrocytes and the myelin sheath around axons.

ADDITIONAL INFORMATION

Related Product Information for anti-ADCY3 antibody

Trimeric G-proteins are a large and variable family of membrane receptors. On binding their specific ligand they activate specific members of the family of trimeric G-proteins which in turn activate other signalling enzymes. Adenylate cyclases are one of these downstream enzyme families which are activated by the GTP bound G α s subunits of trimeric G-proteins. Adenylate cyclases are responsible for the production of the important "second messenger" signaling molecule cyclic-AMP which in turn activates the cAMP dependent protein kinase, which phosphorylates and regulates numerous other molecules. There are several different adenylate cyclase gene products, the type III adenylate cyclase being specifically localized in neuronal cilia. Much interest has focused on neuronal cilia since they express a variety of receptors and appear to function as a unique and previously not well understood sensory structure of neurons. For examples, the somatostatin 3 receptor, NPY2 receptor and melanin concentrating hormone receptor 1 are localized in neuronal cilia and the sonic hedgehog and Wnt signalling pathway act primarily through neuronal cilia. This antibody is an excellent marker of neuronal cilia in the brain and in cells in tissue culture and works in the same way as our rabbit polyclonal made against the same peptide.

This antibody was made against the C-terminal peptide of rat ACIII, works on mouse and human cells and is an excellent marker of neuronal cilia in the brain and in cells in tissue culture.

NCBI AND UNIPROT INFORMATION

NCBI GI #	219519026
NCBI GeneID	109
UniProt Accession #	O60266 ; Q53T54 ; Q9UDB1
NCBI Official Full Name	ADCY3 protein
NCBI Official Synonym Full Names	adenylate cyclase 3
NCBI Official Symbol	ADCY3
NCBI Official Synonym Symbols	AC3
NCBI Protein Information	adenylate cyclase type 3; AC-III; adenylyl cyclase 3; ATP pyrophosphate-lyase 3; adenylate cyclase type III; adenylyl cyclase, type III; adenylate cyclase, olfactory type
UniProt Protein Name	Adenylate cyclase type 3
UniProt Gene Name	ADCY3
UniProt Synonym Gene Names	KIAA0511; AC-III; AC3
UniProt Entry Name	ADCY3_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/adenylate-cyclase-iii-adcy3-antibody-immunofluorescence-immunohistochemistry-western-blot-immunocytochemistry-elisa/76703>