

Rabbit Adenylate Cyclase III Polyclonal Antibody | anti-ADCY3 antibody

Anti-Adenylate Cyclase III

CATALOG # AAA72822	HOST Rabbit	REACTIVITY Human, mouse, rat	APPLICATIONS Immunofluorescence
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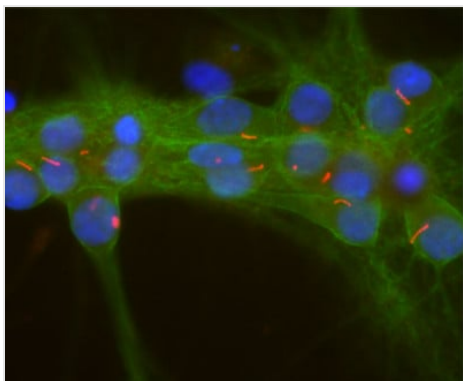
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

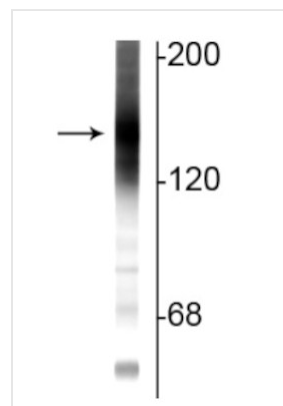
Host	Rabbit
Reactivity	Human, mouse, rat
Clonality	Polyclonal
Specificity	Specific for the ~160 kDa adenylate cyclase III protein.
Purity/Purification	Affinity purified rabbit serum.
Form/Format	100 uL in PBS + 50% glycerol and 5mM NaN ₃
Sequence Length	1144
Applicable Applications for anti-ADCY3 antibody	IF (Immunofluorescence)
Quality Control Tests	Western blots performed on each lot.
Immunogen	Synthetic peptide corresponding to amino acid residues from the C-terminal region of rat adenylate cyclase III, conjugated to keyhole limpet hemocyanin (KLH).
Preparation and Storage	Store at -20°C in undiluted aliquots; stable for at least 1 year. Avoid freeze/thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence of cultured rat neurons and glia showing strong staining of neuronal cilia using our anti-adenylate cyclase III antibody (red) and axonal and dendritic staining of alpha II spectrin (cat. #) (green) revealing the submembraneous and DNA (blue).



WB (Western Blot)

Western blot of rat cortical lysate showing specific immunolabeling of the ~160 kDa adenylate cyclase III protein.

ADDITIONAL INFORMATION

Related Product Information for anti-ADCY3 antibody	Description: Affinity purified rabbit polyclonal antibody Target Description: Adenylate cyclase is the enzyme which produces the "second messenger" signaling molecule, cAMP from ATP. Type III adenylate cyclase is localized to the membranes surrounding neuronal cilia. Much is currently unknown about the function of primary cilia in vertebrates, however, recent work has begun to explore their role in neuronal signaling and neurogenesis (Fuchs and Schwark, 2004; Louvi and Grove 2011).
References	• Fuchs JL, Schwark HD. (2004) Neuronal primary cilia: a review. Cell Biol Int. 28:111-8. • Louvi A and Grove EA. (2011) Cilia in the CNS: the quiet organelle claims center stage. Neuron 69:1046-1060

NCBI AND UNIPROT INFORMATION

NCBI GI #	169636413
NCBI GeneID	64508
NCBI Accession #	NP_570135.2
NCBI GenBank Nucleotide #	NM_130779.2
UniProt Accession #	P21932
NCBI Official Full Name	adenylate cyclase type 3
NCBI Official Synonym Full Names	adenylate cyclase 3
NCBI Official Symbol	Adcy3
NCBI Protein Information	adenylate cyclase type 3; AC3; AC-III; adenylyl cyclase 3; ATP pyrophosphate-lyase 3; type III adenylyl cyclase; adenylate cyclase type III; adenylate cyclase, olfactory type
UniProt Protein Name	Adenylate cyclase type 3
UniProt Gene Name	Adcy3
UniProt Synonym Gene Names	AC-III; AC3
UniProt Entry Name	ADCY3_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.