

Adenylate Cyclase III Antibody
Rabbit polyclonal antibody
Catalog # AN1220**Specification**

Adenylate Cyclase III Antibody - Product Information

Application	WB, IF
Primary Accession	P21932
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	160, 200 KDa

Adenylate Cyclase III Antibody - Additional Information

Gene ID	64508
Gene Name	ADCY3

Other Names

Adenylate cyclase type 3, ATP pyrophosphate-lyase 3, Adenylate cyclase type III, AC-III, Adenylate cyclase, olfactory type, Adenylyl cyclase 3, AC3, Adcy3

Target/Specificity

Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH.

Dilution

WB~~ 1:2000

IF~~ 1:500

Format

Affinity purified rabbit serum.

Antibody Specificity

Specific for the ~160 kDa adenylate cyclase III protein.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Adenylate Cyclase III Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

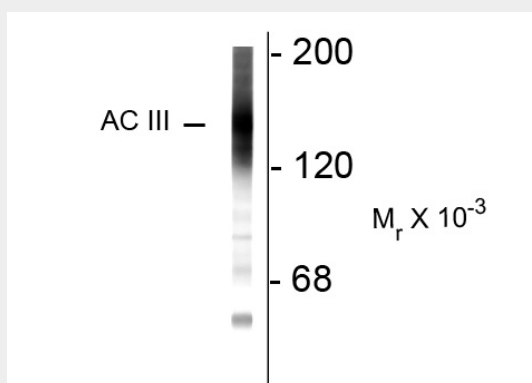
Blue Ice

Adenylate Cyclase III Antibody - Protocols

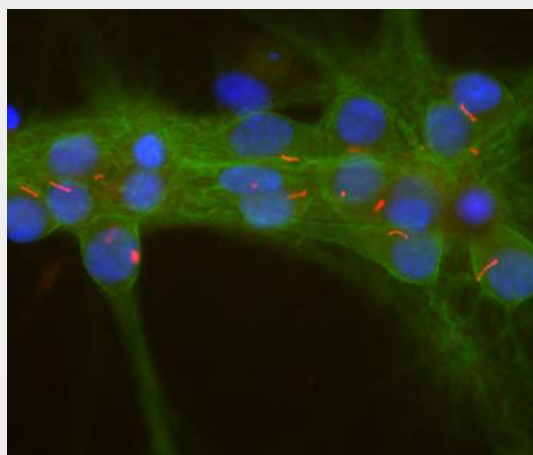
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Adenylate Cyclase III Antibody - Images



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



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 (green) revealing the submembraneous cytoskeleton and DNA (blue).

Adenylate Cyclase III Antibody - Background

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).

Adenylate Cyclase III Antibody - 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