

Datasheet for 600-401-W91**Adenylate Cyclase III Antibody****Overview**

Description:	Anti-Adenylate Cyclase III (RABBIT) Antibody - 600-401-W91
Item No.:	600-401-W91
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

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. Adenylate Cyclase III Antibody is ideal for researchers interested in cell signaling and neuroscience research.
Synonyms:	ATP pyrophosphate-lyase 3, Adenylate cyclase type III, AC-III, Adenylate cyclase olfactory type, Adenyl cyclase 3, AC3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Adcy3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Adenylate Cyclase III Antibody was produced in rabbit by repeated immunizations with a synthetic peptide corresponding to amino acid residues from the C-terminal region of rat adenylate cyclase III conjugated to KLH.

Purity/Specificity: Anti-Adenylate Cyclase III antibody is directed to rat adenylate cyclase III protein. Anti-Adenylate Cyclase III was purified by affinity purification.

Relevant Links:

- [UniProtKB - P21932](#)
- [GeneID - 64508](#)
- [NCBI - NP_570135.2](#)

Application Details

Tested Applications: IHC, WB

Application Note: Anti-Adenylate Cyclase III antibody is tested for Western Blot, immunohistochemistry, and immunocytochemistry. Expect a band at approximately ~160/200kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:20,000

IHC: 1:10,000

WB: 1:2000

Formulation

Physical State: Liquid (sterile filtered)

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: 50% (v/v) Glycerol

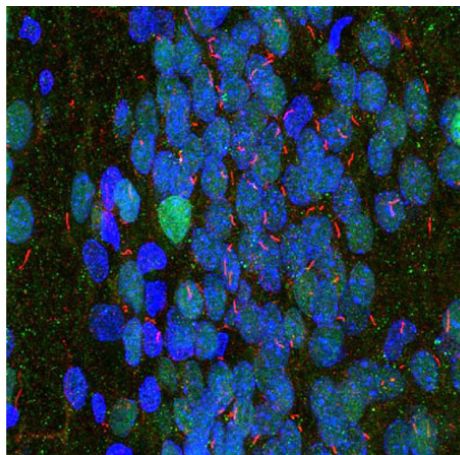
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening in undiluted aliquots. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use.

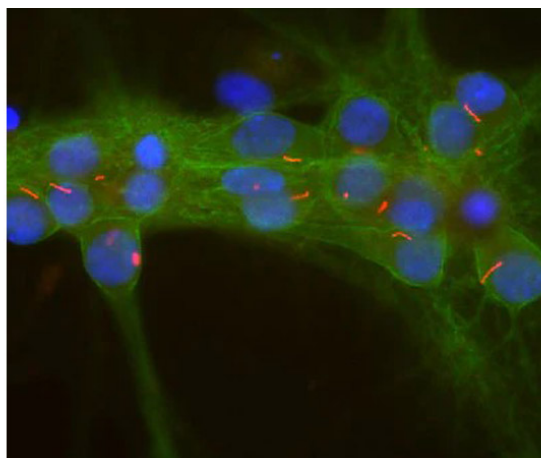
Expiration: Expiration date is one (1) year from date of receipt.

Images



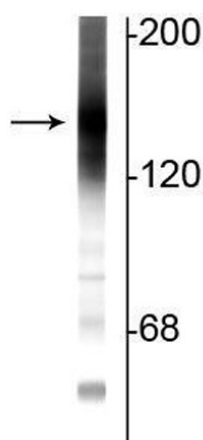
Immunofluorescence Microscopy

Immunofluorescence of a section of rat hippocampus selectively labeling the neuronal cilia with anti-adenylate cyclase III (p/n 600-401-W91, 1:10,000, red), labeling nuclei with anti-MECP2 (1:1000, green), and Hoechst staining of nuclear DNA.



Immunofluorescence Microscopy

Immunostaining of cultured rat neurons and glia showing strong staining of neuronal cilia using our anti-adenylate cyclase III antibody (p/n 600-401-W91, 1:500, red) and axonal and dendritic staining of alpha II spectrin (1:500, green) revealing the submembranous cytoskeleton and DNA (blue).



Western Blot

Western blot of Anti-Adenylate Cyclase III Antibody. Rat cortical lysate showing specific immunolabeling of the ~160 kDa adenylate cyclase III protein.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.