



Datasheet for ABIN7042892

## anti-ADCY3 antibody (3rd Extracellular Loop)



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### 4 Images

#### Overview

Quantity:	25 µL
Target:	ADCY3
Binding Specificity:	3rd Extracellular Loop, AA 285-299
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADCY3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

#### Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KHVADEMLKDMKKDE, corresponding to amino acid residues 285-299 of rat ADCY3
Isotype:	IgG
Characteristics:	Anti-Adenylate Cyclase 3 (AC3) (extracellular) Antibody (ABIN7042892, ABIN7043932 and ABIN7043933)) is a highly specific antibody directed against an extracellular epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry and live cell imaging applications. The antibody recognizes an extracellular epitope and thus is ideal for detecting ADCY3 in living cells. It has been designed to recognize ADCY3 from human, rat and mouse samples.

## Product Details

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Purification: Affinity purified on immobilized antigen.

## Target Details

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Target: ADCY3

Alternative Name: Adenylate Cyclase 3 (AC3) ([ADCY3 Products](#))

Background: Alternative names: Adenylate Cyclase 3 (AC3), Adenylate cyclase type 3, Adenylate cyclase type III, AC-III, ATP pyrophosphate-lyase 3, Adenylate cyclase olfactive type, Adenylyl cyclase 3, ADCY3

Gene ID: 64508

NCBI Accession: [NM\\_001320613](#)

UniProt: [P21932](#)

Pathways: [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Thyroid Hormone Synthesis](#), [cAMP Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [G-protein mediated Events](#), [Interaction of EGFR with phospholipase C-gamma](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: 25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.

Concentration: 0.85 mg/mL

Buffer: Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

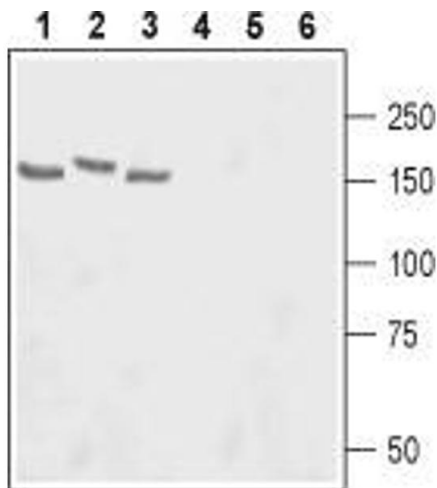
Storage: RT, 4 °C, -20 °C

Storage Comment: Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature.

Upon arrival, it should be stored at -20°C.

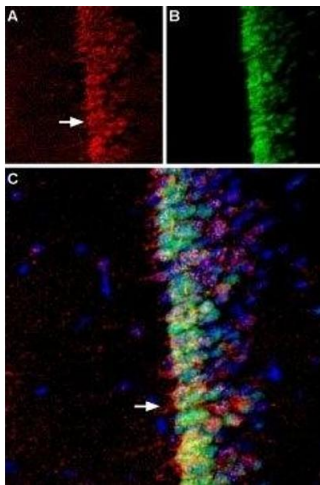
Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.

For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



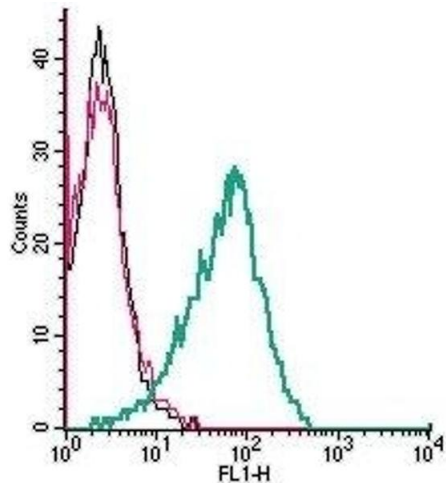
### Western Blotting

**Image 1.** Western blot analysis of rat lung (lanes 1 and 4), rat brain (lanes 2 and 5) and hippocampus (lanes 3 and 6) lysates: - 1-3. Anti-Adenylate Cyclase 3 (AC3) (extracellular) Antibody (ABIN7042892, ABIN7043932 and ABIN7043933), (1:200).4-6. Anti-Adenylate Cyclase 3 (AC3) (extracellular) Antibody, preincubated with Adenylate Cyclase 3/AC3 (extracellular) Blocking Peptide (#BLP-AR043).



### Immunohistochemistry

**Image 2.** Expression of Adenylate cyclase type III in mouse hippocampal neurons - Immunohistochemical staining of mouse hippocampal sections using Anti-Adenylate Cyclase 3 (AC3) (extracellular) Antibody (ABIN7042892, ABIN7043932 and ABIN7043933), (1:400), (red). A. AC3 staining of neurons. B. Staining with mouse anti-NeuN (green), as a neuronal marker on the same section. C. Merge of A and B demonstrates "primary cilia" - thin rod-like extensions from neurons in the pyramidal layer of the hippocampus.



### Flow Cytometry

**Image 3.** Cell surface detection of ADCY3 by indirect flow cytometry in live intact human MEG-01 megakaryocytic leukemia cells: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC.(green line) Cells + Anti-Adenylate Cyclase 3 (AC3) (extracellular) Antibody (ABIN7042892, ABIN7043932 and ABIN7043933), (2.5 µg) + goat-anti-rabbit-FITC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7042892.