

Datasheet for ABIN7042893

## anti-ADCY3 antibody (3rd Extracellular Loop) (Atto 488)



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### 1 Image

#### Overview

Quantity:	50 µL
Target:	ADCY3
Binding Specificity:	3rd Extracellular Loop, AA 285-299
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADCY3 antibody is conjugated to Atto 488
Application:	Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

#### Product Details

Immunogen:	<p>Immunogen: Synthetic peptide</p> <p>Immunogen Sequence: (C)KHVADEMLKDMKKDE, corresponding to amino acid residues 285-299 of rat ADCY3</p>
Isotype:	IgG
Characteristics:	<p>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.</p> <p>Anti-Adenylate Cyclase 3 (AC3) (extracellular)-ATTO Fluor-488 Antibody (#ABIN7042893) is directly labeled with an ATTO-488 fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum</p>

## Product Details

yield, and high photo-stability. The ATTO-488 label is analogous to the well known dye fluorescein isothiocyanate (FITC) and can be used with filters typically used to detect FITC. Anti-Adenylate Cyclase 3 (AC3) (extracellular)-ATTO Fluor-488 Antibody has been tested in live cell imaging applications and is especially suited for experiments requiring simultaneous labeling of different markers.

Purification: Affinity purified on immobilized antigen.

## Target Details

Target:	ADCY3
Alternative Name:	Adenylate Cyclase 3 (AC3) ( <a href="#">ADCY3 Products</a> )
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:	<a href="#">NM_001320613</a>
UniProt:	<a href="#">P21932</a>
Pathways:	<a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Thyroid Hormone Synthesis</a> , <a href="#">cAMP Metabolic Process</a> , <a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">G-protein mediated Events</a> , <a href="#">Interaction of EGFR with phospholipase C-gamma</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

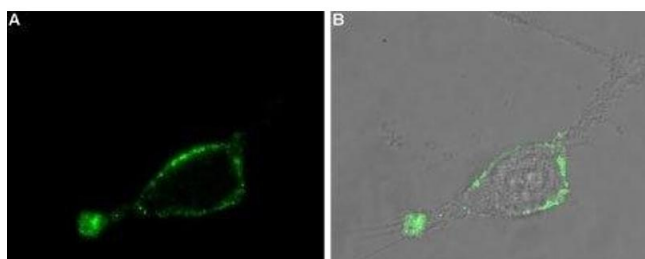
## Handling

Format:	Lyophilized
Reconstitution:	50 µL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.

## Handling

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:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, 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).</p>

## Images



### Immunocytochemistry

**Image 1.** Expression of Adenylate cyclase type III in rat U-87 MG cells - Cell surface detection of Adenylate cyclase type III in intact living rat U-87 MG cells. A. Extracellular staining of cells using Anti-Adenylate Cyclase 3 (AC3) (extracellular)-ATTO Fluor-488 Antibody (ABIN7042893), (1:25), (green). B. Merge of A with live view of the cells.