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Datasheet for ABIN702565

anti-ADCY1 antibody (AA 751-850)

2 Images

1 Publication

Overview

Quantity:	100 µL
Target:	ADCY1
Binding Specificity:	AA 751-850
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADCY1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Adenylyl cyclase
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse
Purification:	Purified by Protein A.

Target Details

Target:	ADCY1
Alternative Name:	ADCY1 (ADCY1 Products)
Background:	Synonyms: AC1, DFNB44, Adenylate cyclase type 1, ATP pyrophosphate-lyase 1, Adenylate

Target Details

cyclase type I, Adenylyl cyclase 1, Ca(2+)/calmodulin-activated adenylyl cyclase, ADCY1

Background: This is a calmodulin-sensitive adenylyl cyclase. May be involved in regulatory processes in the central nervous system. It may play a role in memory acquisition and learning. Plays a role in the regulation of the circadian rhythm of daytime contrast sensitivity probably by modulating the rhythmic synthesis of cyclic AMP in the retina (By similarity).

Gene ID: 107

UniProt: [Q08828](#)

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

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

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

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

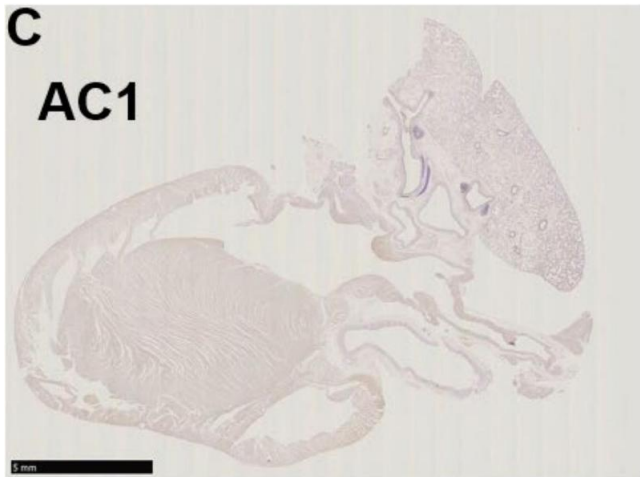
Expiry Date: 12 months

Publications

Product cited in: Okamoto, Aung, Tanaka, Takeda, Takagi, Igarashi, Ishii, Yamakawa, Ono: "Preferential Expression of Ca²⁺-Stimulable Adenylyl Cyclase III in the Supraventricular Area, including

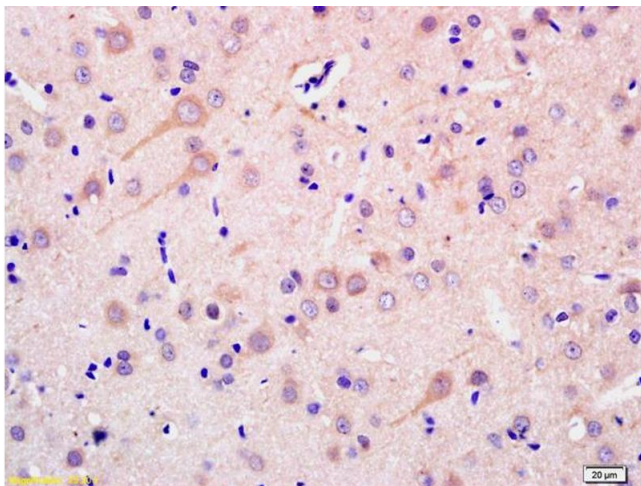
Arrhythmogenic Pulmonary Vein of the Rat Heart." in: **Biomolecules**, Vol. 12, Issue 5, (2022) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Immunohistochemistry of a left-sided rat heart for adenylyl cyclase AC1 (moderately positive) Source: PMID35625651



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat brain labeled with Anti-ADCY1 Polyclonal Antibody, Unconjugated (ABIN702565) at 1:200 followed by conjugation to the secondary antibody and DAB staining.