

Product datasheet

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ARG11121 anti-Adenylate cyclase 3 antibody [1A12]

Package: 50 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [1A12] recognizes Adenylate cyclase 3

Tested Reactivity Rat

Predict Reactivity Hu, Ms **Tested Application** IHC-Fr

Host Mouse

Monoclonal Clonality

Clone lgG1 Isotype

Target Name Adenylate cyclase 3

1A12

Species

Immunogen KLH-conjugated synthetic peptide around the C-terminal region of Rat Adenylate cyclase 3. (C-

PAAFPNGSSVTLPHQVVDNP)

Conjugation Un-conjugated

Alternate Names AC-III; Adenylate cyclase type III; AC3; ATP pyrophosphate-lyase 3; Adenylate cyclase, olfactive type;

Adenylyl cyclase 3; EC 4.6.1.1; Adenylate cyclase type 3

Application Instructions

Application table	Application	Dilution
	IHC-Fr	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Liquid Form Purification Purified

Buffer PBS, 5 mM Sodium azide and 50% Glycerol.

Preservative 5 mM Sodium azide

Stabilizer 50% Glycerol Concentration 1 mg/ml

For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot Storage instruction

> and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol ADCY3

Gene Full Name adenylate cyclase 3

Background This gene encodes adenylyl cyclase 3 which is a membrane-associated enzyme and catalyzes the

formation of the secondary messenger cyclic adenosine monophosphate (cAMP). This protein appears to be widely expressed in various human tissues and may be involved in a number of physiological and pathophysiological metabolic processes. Two transcript variants encoding different isoforms have been

found for this gene. [provided by RefSeq, Feb 2016]

Function Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Participates

in signaling cascades triggered by odorant receptors via its function in cAMP biosynthesis. Required for the perception of odorants. Required for normal sperm motility and normal male fertility. Plays a role in

regulating insulin levels and body fat accumulation in response to a high fat diet. [UniProt]

Calculated Mw 129 kDa

PTM Sumoylated. Sumoylation is required for targeting ot olfactory cilia.

N-glycosylated.

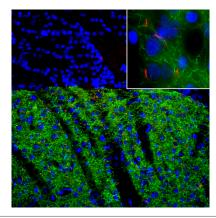
Rapidly phosphorylated after stimulation by odorants or forskolin. Phosphorylation by CaMK2 at

Ser-1076 down-regulates enzyme activity. [UniProt]

Cell membrane; Multi-pass membrane protein. Cytoplasm. Cell projection, cilium. Golgi apparatus.

Note=Also detected in the cytoplasm, close to lipid droplets. [UniProt]

Images



ARG11121 anti-Adenylate cyclase 3 antibody [1A12] IHC-Fr image

Immunohistochemistry: Frozen section of caudate/putamen region of rat brain stained with ARG11121 anti-Adenylate cyclase 3 antibody [1A12] (red), and co-stained with anti-Tyrosine Hydroxylase antibody (green). Hoechst (blue) for nuclear staining.