

Adenylate Cyclase 1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50964**Specification**

Adenylate Cyclase 1 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	Q08828
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	123 KDa

Adenylate Cyclase 1 Antibody - Additional Information**Gene ID** 107**Other Names**

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

Dilution

WB~~1:1000
IHC-P~~N/A
E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Adenylate Cyclase 1 Antibody - Protein Information**Name** ADCY1**Function**

Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Mediates responses to increased cellular Ca(2+)/calmodulin levels (By similarity). May be involved in regulatory processes in the central nervous system. May play a role in memory 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).

Cellular Location

Membrane {ECO:0000250|UniProtKB:P19754}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P19754}. Cell membrane; Multi-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:O88444}. Membrane raft {ECO:0000250|UniProtKB:P19754}.
Note=Expressed in the cytoplasm of supporting cells and hair cells of the cochlea vestibule, as

well as to the cochlear hair cell nuclei and stereocilia {ECO:0000250|UniProtKB:O88444}

Tissue Location

Detected in zona glomerulosa and zona fasciculata in the adrenal gland (at protein level) (PubMed:11549699). Brain, retina and adrenal medulla.

Adenylate Cyclase 1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Adenylate Cyclase 1 Antibody - Images**Adenylate Cyclase 1 Antibody - 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.

Adenylate Cyclase 1 Antibody - References

Hillier L.W., et al. Nature 424:157-164(2003).
Scherer S.W., et al. Science 300:767-772(2003).
Villacres E.C., et al. Genomics 16:473-478(1993).