10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ADCY1 / Adenylate Cyclase 1 Antibody (aa231-280)

Rabbit Polyclonal Antibody
Catalog # ALS16725

Specification

ADCY1 / Adenylate Cyclase 1 Antibody (aa231-280) - Product Information

Application	**IHC, WB**
Primary Accession	Q08828
Other Accession	107
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**123440**

ADCY1 / Adenylate Cyclase 1 Antibody (aa231-280) - Additional Information

Gene ID 107

Other Names
ADCY1, 3, 5-cyclic AMP synthetase, Adenylate cyclase type I, AC1, Adenylate cyclase type 1, Adenylyl cyclase 1, ATP pyrophosphate-lyase 1, Adenyl cyclase, Adenylate cyclase 1 (brain), Adenylate cyclase, type i, ATP pyrophosphate-lyase

Target/Specificity
ADCY1 Antibody detects endogenous levels of total ADCY1 protein.

Reconstitution & Storage
PBS (without Mg2+, Ca2+), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol. Store at -20°C for up to one year.

Precautions
ADCY1 / Adenylate Cyclase 1 Antibody (aa231-280) is for research use only and not for use in diagnostic or therapeutic procedures.

ADCY1 / Adenylate Cyclase 1 Antibody (aa231-280) - 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.

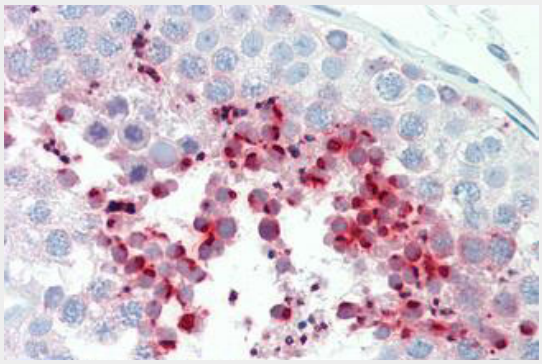
Volume
50 µl

ADCY1 / Adenylate Cyclase 1 Antibody (aa231-280) - Protocols

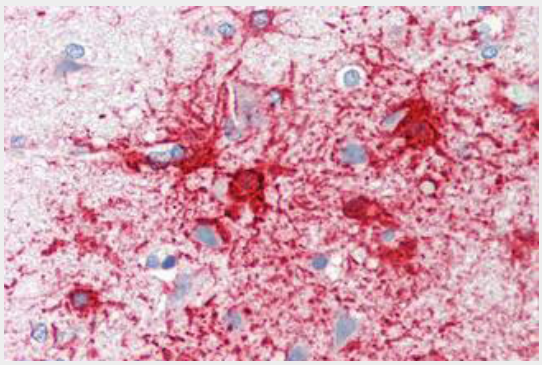
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ADCY1 / Adenylate Cyclase 1 Antibody (aa231-280) - Images

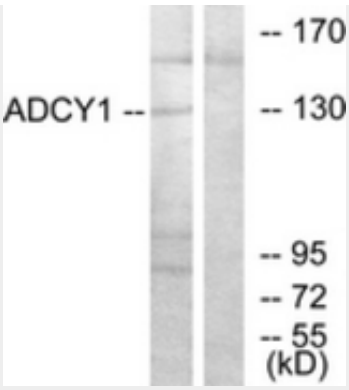


Huma Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



Anti-ADCY1 / Adenylate Cyclase 1 antibody IHC staining of human brain, cortex.

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Western blot of extracts from COLO205 cells, using ADCY1 Antibody.

ADCY1 / Adenylate Cyclase 1 Antibody (aa231-280) - 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).

ADCY1 / Adenylate Cyclase 1 Antibody (aa231-280) - 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).
Santos-Cortez R.L.,et al.Hum. Mol. Genet. 23:3289-3298(2014).