



## Rabbit Anti-Adenylate cyclase 1 antibody

SL4288R

|                               |   |
|-------------------------------|---|
| <b>Product Name:</b>          | Adenylate cyclase 1   |
| <b>Chinese Name:</b>          | 腺苷酸环化酶1抗体   |
| <b>Alias:</b>                 | 3'5' cyclic AMP synthetase; ADCY1; adenylyl cyclase; Adenylate cyclase 1; adenylate cyclase type I; ATP pyrophosphate lyase; Brain adenylate cyclase 1; Ca(2+)/calmodulin activated adenylyl cyclase; EC 4.6.1.1; ADCY1_HUMAN; Adenylate cyclase type 1; ATP pyrophosphate-lyase 1; Adenylate cyclase type I; Adenylyl cyclase 1; Ca(2+)/calmodulin-activated adenylyl cyclase. |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | Human,Mouse,Rat,Dog,Pig,Cow,  |
| <b>Applications:</b>          | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 123kDa  |
| <b>Cellular localization:</b> | cytoplasmicThe cell membrane  |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human Adenylate cyclase 1.:1001-1119/1119<Cytoplasmic>  |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.   |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | The membrane bound adenylyl cyclases (ACs) represent one of the major families of effector enzymes for G protein coupled receptors. Eight human AC isoforms (AC-1   |

through AC-4) have been identified up to now and genes for at least nine adenylate cyclase (AC-1-AC-9) have been cloned characterized and sequenced. This is a calmodulin-sensitive adenylyl cyclase which may be involved in regulatory processes in the central nervous system. It may play a role in neuronal plasticity, memory acquisition and learning and is expressed predominantly in the brain, retina and adrenal medulla.

**Function:**

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.

**Subcellular Location:**

Membrane; Multi-pass membrane protein.

**Tissue Specificity:**

Brain, retina and adrenal medulla.

**Similarity:**

Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. Contains 2 guanylate cyclase domains.

**SWISS:**

Q08828

**Gene ID:**

107

**Database links:**

[Entrez Gene: 107](#)Human

[Entrez Gene: 432530](#)Mouse

[Entrez Gene: 305509](#)Rat

[Omim: 103072](#)Human

[SwissProt: Q08828](#)Human

[SwissProt: O88444](#)Mouse

[Unigene: 192215](#)Human

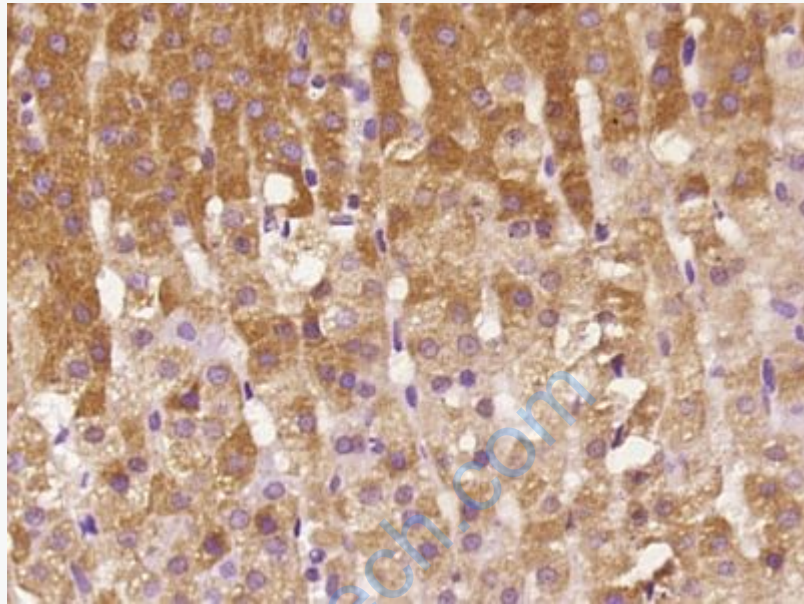
[Unigene: 259733](#)Mouse

[Unigene: 214145](#)Rat

**Important Note:**

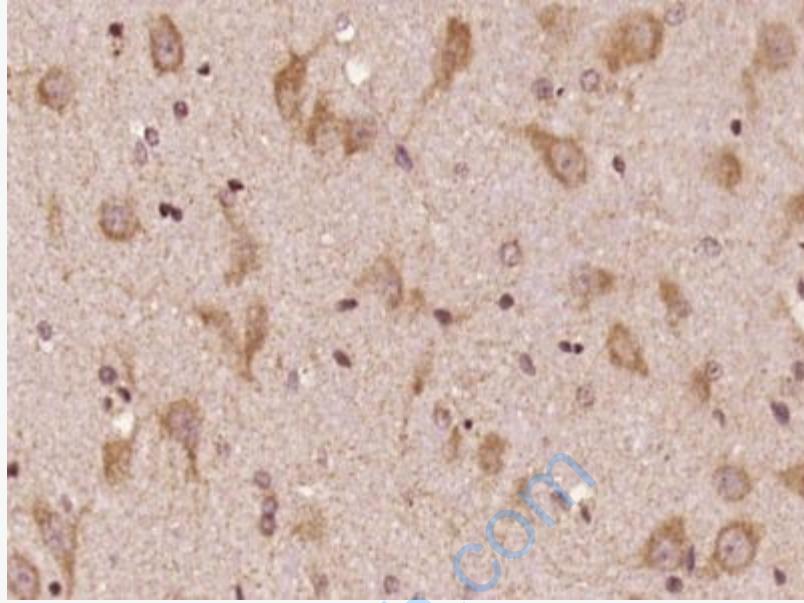
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therapeutic or diagnostic applications.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (rat adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Adenylate cyclase 1) Polyclonal Antibody, Unconjugated (SL4288R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Adenylate cyclase 1) Polyclonal Antibody, Unconjugated (SL4288R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.