



Rabbit Anti-Adenylate cyclase 1 antibody

SL3681R

Product Name:	Adenylate cyclase 1
Chinese Name:	腺苷酸环化酶1抗体
Alias:	3'5' cyclic AMP synthetase; ADCY1; adenylyl cyclase; 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. .
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	123kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human adenylate cyclase type I:751-850/1118<Cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	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

[Omim: 103072](#)Human

[SwissProt: Q08828](#)Human

[SwissProt: O88444](#)Mouse

[Unigene: 192215](#)Human

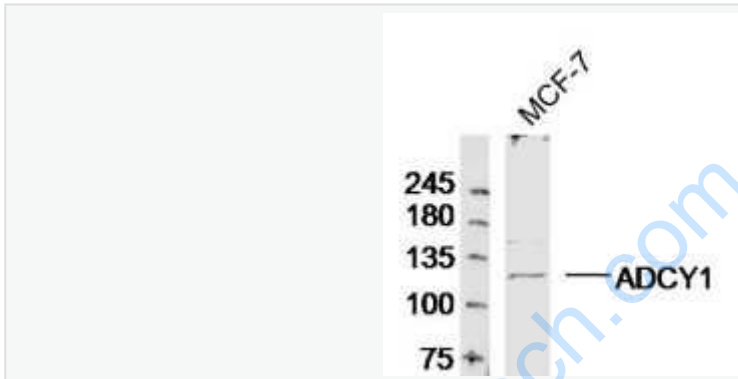
[Unigene: 259733](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

腺苷酸环化酶(adenylate cyclase, AC) 是G protein-coupled receptor家族之一, 是膜整合蛋白,它的氨基端和羧基端都朝向细胞质。AC在膜的细胞质面有两个催化结构域,还有两个膜整合区,每个膜整合区分别有6个跨膜的 α 螺旋。哺乳动物中已发现6个腺苷酸环化酶异构体。由于AC能够将ATP转变成cAMP,引起细胞的信号应答,因此,腺苷酸环化酶是G蛋白偶联系统中的效应物。



Sample:

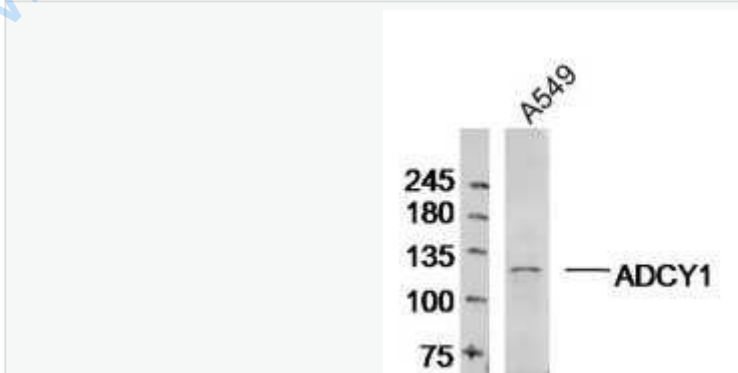
MCF-7 Cell(Human)Lysate at 30 ug

Primary: Anti- ADCY1 (SL3681R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 123kD

Observed band size: 123kD



Sample:

Picture:

A549 Cell (Human) Lysate at 30 ug

Primary: Anti- ADCY1 (SL3681R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 123kD

Observed band size: 123kD

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