

---

**Product Name: A Cyclase V/VI Rabbit Polyclonal Antibody****Catalog #: APRab06355**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

**Dilution Ratio** IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000

**Molecular Weight**

**Antigen Information**

<b>Gene Name</b>	ADCY5/ADCY6 ADCY6; KIAA0422; Adenylate cyclase type 6; ATP pyrophosphate-lyase 6; Adenylate cyclase
<b>Alternative Names</b>	type VI; Adenylyl cyclase 6; Ca(2+)-inhibitable adenylyl cyclase; ADCY5; Adenylate cyclase type 5; ATP pyrophosphate-lyase 5; Adenylate cyclase type V;
<b>Gene ID</b>	112/111
<b>SwissProt ID</b>	O43306/O95622
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ADCY5/6. AA range:931-980

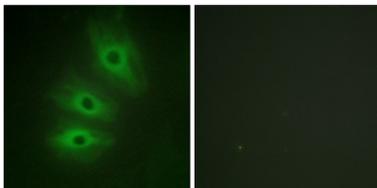
## Background

This gene encodes a member of the adenylyl cyclase family of proteins, which are required for the synthesis of cyclic AMP. All members of this family have an intracellular N-terminus, a tandem repeat of six transmembrane domains separated by a cytoplasmic loop, and a C-terminal cytoplasmic domain. The two cytoplasmic regions bind ATP and form the catalytic core of the protein. Adenylyl cyclases are important effectors of transmembrane signaling pathways and are regulated by the activity of G protein coupled receptor signaling. This protein belongs to a small subclass of adenylyl cyclase proteins that are functionally related and are inhibited by protein kinase A, calcium ions and nitric oxide. A mutation in this gene is associated with arthrogyrosis multiplex congenita. [provided by RefSeq, May 2015],catalytic activity:ATP = 3',5'-cyclic AMP + diphosphate.,cofactor:Binds 2 magnesium ions per subunit.,enzyme regulation:Inhibition by calcium in the submicromolar concentration range.,function:Membrane-bound, calcium-inhibitable adenylyl cyclase.,similarity:Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.,similarity:Contains 2 guanylate cyclase domains.,

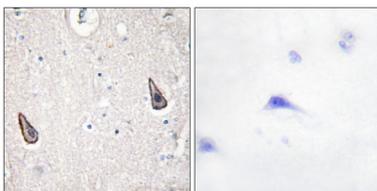
## Research Area

Purine metabolism;Chemokine;Oocyte meiosis;Vascular smooth muscle contraction;Gap junction;Taste transduction;GnRH;Progesterone-mediated oocyte maturation;Melanogenesis;Dilated cardiomyopathy;

## Image Data



Immunofluorescence analysis of HeLa cells, using ADCY5/6 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ADCY5/6 Antibody. The picture on the right is blocked with the synthesized peptide.