

**ADCY9 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50059**

**Specification**

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**ADCY9 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>WB, IHC</b>         |
| Primary Accession | <a href="#">O60503</a> |
| Reactivity        | <b>Human</b>           |
| Host              | <b>Rabbit</b>          |
| Clonality         | <b>Polyclonal</b>      |
| Calculated MW     | <b>151 KDa</b>         |
| Antigen Region    | <b>955-983</b>         |

**ADCY9 Antibody - Additional Information**

**Gene ID** 115

**Other Names**

Adenylate cyclase type 9, ATP pyrophosphate-lyase 9, Adenylate cyclase type IX, Adenylyl cyclase 9, ADCY9, KIAA0520

**Dilution**

WB~~ 1:1000  
IHC~~1:50-1:100

**Format**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**ADCY9 Antibody - Protein Information**

**Name** ADCY9

**Synonyms** KIAA0520

**Function**

Adenylyl cyclase that catalyzes the formation of the signaling molecule cAMP in response to activation of G protein-coupled receptors (PubMed: [10987815](http://www.uniprot.org/citations/10987815), PubMed: [12972952](http://www.uniprot.org/citations/12972952), PubMed: [15879435](http://www.uniprot.org/citations/15879435), PubMed: [9628827](http://www.uniprot.org/citations/9628827)). Contributes to signaling cascades activated by CRH (corticotropin-releasing factor), corticosteroids and beta-adrenergic receptors (PubMed: [9628827](http://www.uniprot.org/citations/9628827))

target="\_blank">9628827</a>).

### Cellular Location

Cell membrane; Multi-pass membrane protein

### Tissue Location

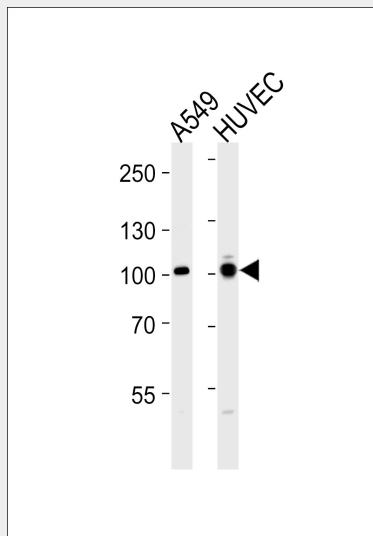
Detected in skeletal muscle, pancreas, lung, heart, kidney, liver, brain and placenta (PubMed:10987815, PubMed:9628827) Expressed in multiple cells of the lung, with expression highest in airway smooth muscle (PubMed:12972952).

## ADCY9 Antibody - Protocols

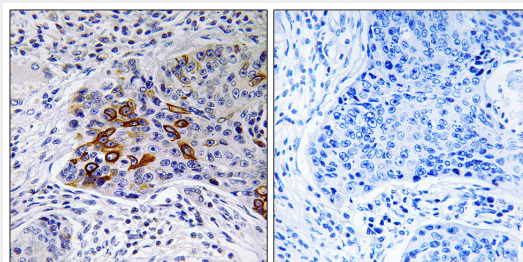
Provided below are standard protocols that you may find useful for product applications.

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

## ADCY9 Antibody - Images



Western blot analysis of lysates from A549, HUVEC cell line (from left to right), using ADCY9 Antibody (C20506). C20506 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using ADCY9 antibody.

### **ADCY9 Antibody - Background**

May play a fundamental role in situations where fine interplay between intracellular calcium and cAMP determines the cellular function. May be a physiologically relevant docking site for calcineurin (By similarity).

### **ADCY9 Antibody - References**

Hacker B.M.,et al.Genomics 50:97-104(1998).  
Small K.M.,et al.Pharmacogenetics 13:535-541(2003).  
Tantisira K.G.,et al.Hum. Mol. Genet. 14:1671-1677(2005).  
Paterson J.M.,et al.Submitted (FEB-1999) to the EMBL/GenBank/DDBJ databases.  
Toyota T.,et al.Submitted (MAR-2001) to the EMBL/GenBank/DDBJ databases.

### **ADCY9 Antibody - Citations**

- [ADCY9 functions as a novel cancer suppressor gene in lung adenocarcinoma](#)