

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

Specification

ADCY9 Antibody - Product Information

Application	WB, IHC
Primary Accession	O60503
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	151 KDa
Antigen Region	955-983

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 Mg²⁺ and Ca²⁺), 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).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

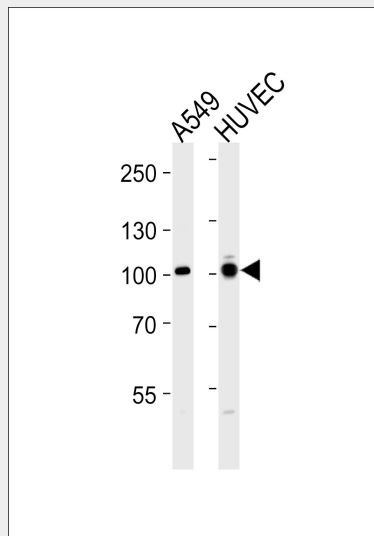
Detected in skeletal muscle, pancreas, lung, heart, kidney, liver, brain and placenta (PubMed:10987815, PubMed:9628827) Expressed in multiple cells of the lung, with expression highest in airway smooth muscle (PubMed:12972952).

ADCY9 Antibody - Protocols

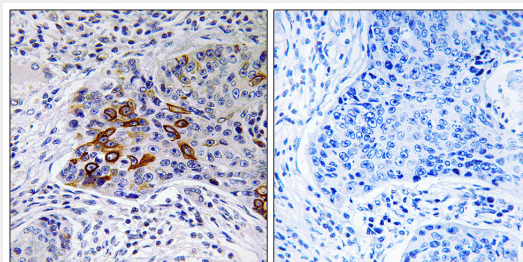
Provided below are standard protocols that you may find useful for product applications.

- [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](#)