

**ADCY9 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17882b****Specification**

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**ADCY9 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O60503</a>
Other Accession	<a href="#">NP_001107.2</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	150701
Antigen Region	1295-1323

**ADCY9 Antibody (C-term) - Additional Information****Gene ID** 115**Other Names**

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

**Target/Specificity**

This ADCY9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1295-1323 amino acids from the C-terminal region of human ADCY9.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ADCY9 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ADCY9 Antibody (C-term) - 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](#), PubMed:[12972952](#), PubMed:[15879435](#), PubMed:[9628827](#)). Contributes to signaling cascades activated by CRH (corticotropin-releasing factor), corticosteroids and beta-adrenergic receptors (PubMed:[9628827](#)).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

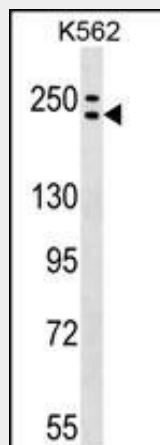
**Tissue Location**

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](#)).

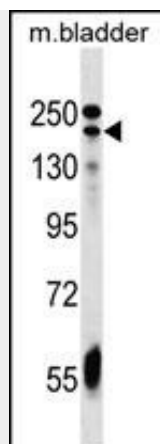
**ADCY9 Antibody (C-term) - Protocols**

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 (C-term) - Images**

ADCY9 Antibody (C-term) (Cat. #AP17882b) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the ADCY9 antibody detected the ADCY9 protein (arrow).



ADCY9 Antibody (C-term) (Cat. #AP17882b) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the ADCY9 antibody detected the ADCY9 protein (arrow).

#### **ADCY9 Antibody (C-term) - Background**

Adenylate cyclase is a membrane bound enzyme that catalyses the formation of cyclic AMP from ATP. It is regulated by a family of G protein-coupled receptors, protein kinases, and calcium. The type 9 adenylyl cyclase is a widely distributed adenylyl cyclase, and it is stimulated by beta-adrenergic receptor activation but is insensitive to forskolin, calcium, and somatostatin.

#### **ADCY9 Antibody (C-term) - References**

Wojcik, C., et al. Am. J. Med. Genet. A 152A (2), 479-483 (2010) :  
Olsen, J.V., et al. Cell 127(3):635-648(2006)  
Tantisira, K.G., et al. Hum. Mol. Genet. 14(12):1671-1677(2005)  
Cumbay, M.G., et al. J. Pharmacol. Exp. Ther. 310(1):108-115(2004)  
Small, K.M., et al. Pharmacogenetics 13(9):535-541(2003)