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ADCY9 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17882b

Specification

ADCY9 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O60503
Other Accession	NP_001107.2
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

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:9628827, PubMed:12972952, PubMed:15879435, PubMed:10987815). 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

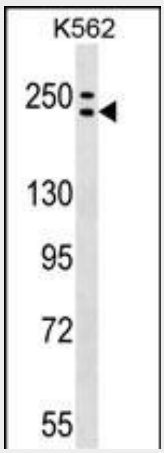
Tissue Location
Detected in skeletal muscle, pancreas, lung, heart, kidney, liver, brain and placenta (PubMed:9628827, PubMed:10987815) Expressed in multiple cells of the lung, with expression highest in airway smooth muscle (PubMed:12972952).

ADCY9 Antibody (C-term) - Protocols

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

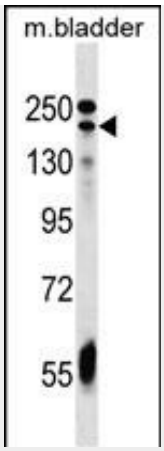
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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).

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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)