

ADCY2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2748b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q08462
Reactivity	Human
Predicted	Mouse, Rat, Rabbit, Chicken, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14942
Calculated MW	123603
Antigen Region	940-969

Additional Information

Gene ID	108
Other Names	Adenylate cyclase type 2, ATP pyrophosphate-lyase 2, Adenylate cyclase type II, Adenylyl cyclase 2, ADCY2, KIAA1060
Target/Specificity	This ADCY2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 940-969 amino acids from the C-terminal region of human ADCY2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	ADCY2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADCY2
Synonyms	KIAA1060
Function	Catalyzes the formation of the signaling molecule cAMP in response to G

protein signaling (PubMed:[15385642](#)). Down-stream signaling cascades mediate changes in gene expression patterns and lead to increased IL6 production. Functions in signaling cascades downstream of the muscarinic acetylcholine receptors (By similarity).

Cellular Location

Membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasm

Tissue Location

Detected in zona glomerulosa and zona fasciculata in the adrenal gland (at protein level) (PubMed:11549699). Expressed in brain, especially in caudate nucleus, cerebellum and hippocampus

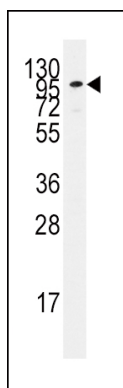
Background

ADCY2 is a member of the family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate(cAMP). This enzyme is insensitive to Ca(2+)/calmodulin, and is stimulated by the G protein beta and gamma subunit complex.

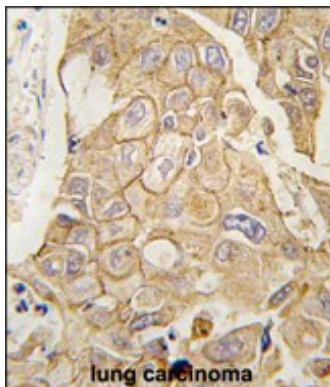
References

Uhl,G.R.,Arch. Gen. Psychiatry 65 (6), 683-693 (2008)
Ludwig,M.G.J. Recept. Signal Transduct. Res. 22 (1-4), 79-110 (2002)
Cote,M., J. Clin. Endocrinol. Metab. 86 (9), 4495-4503 (2001)

Images



Western blot analysis of anti-ADCY2 Pab (Cat.#AP2748b) in Jurkat cell line lysates (35ug/lane). ADCY2(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with ADCY2 antibody (C-term)(Cat.#AP2748b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.