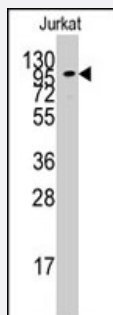


ADCY2 polyclonal antibody

Catalog # PAB2595

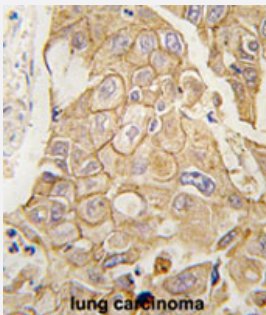
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of ADCY2 polyclonal antibody (Cat # PAB2595) in Jurkat cell line lysates (35 ug/lane). ADCY2 (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human lung carcinoma reacted with ADCY2 polyclonal antibody (Cat # PAB2595), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ADCY2.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human ADCY2.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of ADCY2 polyclonal antibody (Cat # PAB2595) in Jurkat cell line lysates (35 ug/lane). ADCY2 (arrow) was detected using the purified polyclonal antibody.

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This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Gene Info — ADCY2

Entrez GeneID	108
Protein Accession#	NP_065433;Q08462
Gene Name	ADCY2
Gene Alias	AC2, FLJ16822, FLJ45092, HBAC2, KIAA1060, MGC133314
Gene Description	adenylate cyclase 2 (brain)
Omim ID	103071
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the family of adenylyl 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. [provided by RefSeq]
Other Designations	3',5'-cyclic AMP synthetase ATP pyrophosphate-lyase adenylate cyclase 2 adenylate cyclase II adenyl cyclase 2 type II adenylyl cyclase

Publication Reference

- [Molecular genetics of successful smoking cessation: convergent genome-wide association study results.](#)
Uhl GR, Liu QR, Drgon T, Johnson C, Walther D, Rose JE, David SP, Niaura R, Lerman C.
Archives of General Psychiatry 2008 Jun; 65(6):683.
- [Characterization of the human adenylyl cyclase gene family: cDNA, gene structure, and tissue distribution of the nine isoforms.](#)
Ludwig MG, Seuwen K.
Journal of Receptor and Signal Transduction Research 2002 Feb; 22(1-4):79.
- [Expression and regulation of adenylyl cyclase isoforms in the human adrenal gland.](#)
Cote M, Guillon G, Payet MD, Gallo-Payet N.
The Journal of Clinical Endocrinology and Metabolism 2001 Sep; 86(9):4495.

Application: IHC, WB-Ti, Human, Human adrenal cortex, Human adrenal glands

Pathway

- [Calcium signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Gap junction](#)
- [GnRH signaling pathway](#)
- [Melanogenesis](#)
- [Purine metabolism](#)
- [Vascular smooth muscle contraction](#)

Disease

- [Cognition](#)
- [Genetic Predisposition to Disease](#)

- [Kidney Failure](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)