

ADCY2 Rabbit pAb

Catalog # AP97905

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q08462
Other Accession	Q08462
Host	Rabbit
Clonality	Polyclonal
Calculated MW	123603
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ADCY2
Epitope Specificity	901-1091/1091
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. Contains 2 guanylate cyclase domains.
SUBUNIT	Interacts with RAF1.
Post-translational modifications	Phosphorylated by RAF1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ADCY2 is a membrane-bound, calmodulin-insensitive adenylyl cyclase.

Additional Information

Gene ID	108
Other Names	AC2; HBAC2; mKIAA1060; ADCY2_HUMAN; ADCY2; ATP pyrophosphate-lyase 2; Adenylate cyclase type II; Adenylyl cyclase 2; 4.6.1.1; KIAA1060; ADCY2_MOUSE; ADCY2_RAT; Adenylyl cyclase 2 (AC2); adenylate cyclase 2; adenylate cyclase 2 (brain)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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