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ADCY2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP2748b

Specification

ADCY2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q08462

ADCY2 Antibody (C-term) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP2748b was selected from the C-term region of human ADCY2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ADCY2 Antibody (C-term) Blocking Peptide - Protein Information

Name ADCY2

ADCY2 Antibody (C-term) Blocking Peptide - 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.

ADCY2 Antibody (C-term) Blocking Peptide - 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)

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

ADCY2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides