

**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](/products/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**Synonyms** KIAA1060**Function**

Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling (PubMed: <http://www.uniprot.org/citations/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](#)

**ADCY2 Antibody (C-term) Blocking Peptide - Images****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  $\text{Ca}^{2+}$ /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)