

**beta 2 Adrenergic Receptor (BAR2) Antibody (N-term) Blocking peptide**  
Synthetic peptide  
Catalog # BP7263a**Specification****beta 2 Adrenergic Receptor (BAR2) Antibody (N-term) Blocking peptide - Product Information**Primary Accession [P07550](#)  
Other Accession [NP\\_000015](#)**beta 2 Adrenergic Receptor (BAR2) Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 154**Other Names**

Beta-2 adrenergic receptor, Beta-2 adrenoreceptor, Beta-2 adrenoceptor, ADRB2, ADRB2R, B2AR

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7263a](/products/AP7263a) was selected from the N-term region of human BAR2. 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.

**beta 2 Adrenergic Receptor (BAR2) Antibody (N-term) Blocking peptide - Protein Information****beta 2 Adrenergic Receptor (BAR2) Antibody (N-term) Blocking peptide - Background**

This gene encodes beta-2-adrenergic receptor which is a member of the G protein-coupled receptor superfamily. This receptor is directly associated with one of its ultimate effectors, the class C L-type calcium channel Ca(V)1.2. This receptor-channel complex also contains a G protein, an adenylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The assembly of the signaling complex provides a mechanism that ensures specific and rapid signaling by this G protein-coupled receptor. This gene is intronless. Different polymorphic forms, point mutations, and/or downregulation of this gene are associated with nocturnal asthma, obesity and type 2 diabetes.

**beta 2 Adrenergic Receptor (BAR2) Antibody (N-term) Blocking peptide - References**

Wolfarth,B., Metab. Clin. Exp. 56 (12), 1649-1651 (2007)Cherezov,V., Science 318 (5854), 1258-1265 (2007)

**Name** ADRB2

**Synonyms** ADRB2R, B2AR

**Function**

Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds epinephrine with an approximately 30- fold greater affinity than it does norepinephrine.

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Early endosome. Golgi apparatus. Note=Colocalizes with VHL at the cell membrane (PubMed:19584355). Activated receptors are internalized into endosomes prior to their degradation in lysosomes (PubMed:20559325) Activated receptors are also detected within the Golgi apparatus (PubMed:27481942).

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Antibody (N-term) Blocking peptide -  
Protocols**

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

- [Blocking Peptides](#)