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Phospho-BAR2(S261) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3548a

Specification

Phospho-BAR2(S261) Antibody Blocking peptide - Product Information

Primary Accession	P07550
Other Accession	NP_000015

Phospho-BAR2(S261) Antibody 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 AP3548a was selected from the region of human Phospho-BAR2-pS261. 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.

Phospho-BAR2(S261) Antibody Blocking peptide - Protein Information

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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Phospho-BAR2(S261) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-BAR2(S261) Antibody Blocking peptide - Images

Phospho-BAR2(S261) Antibody Blocking peptide - Background

Beta-2-adrenergic receptor 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.

Phospho-BAR2(S261) Antibody Blocking peptide - References

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