

Product Name: AR-β2 (phospho Ser355/S356) Rabbit Polyclonal Antibody
Catalog #: APRab04265



Summary

Production Name	AR-β2 (phospho Ser355/S356) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse,Rat,Monkey

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ADRB2
Alternative Names	ADRB2; ADRB2R; B2AR; Beta-2 adrenergic receptor; Beta-2 adrenoceptor; Beta-2 adrenoceptor
Gene ID	154.0
SwissProt ID	P07550.The antiserum was produced against synthesized peptide derived from human Adrenergic Receptor B2 around the phosphorylation site of Ser355 and Ser356. AA range:331-380

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000..
Molecular Weight	47kD

Product Name: AR-β2 (phospho Ser355/S356) Rabbit Polyclonal Antibody
Catalog #: APRab04265



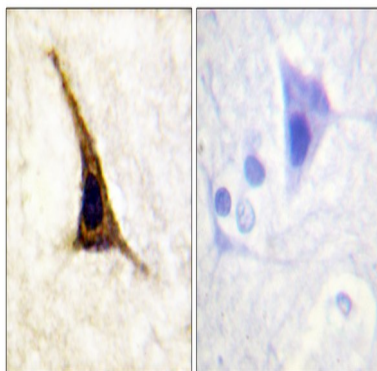
Background

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. [provided by RefSeq, Jul 2008],disease:Polymorphic forms of ADRB2 could impart some form of nocturnal asthma.,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.,PTM:Palmitoylated; may reduce accessibility of Ser-345 and Ser-346 by anchoring Cys-341 to the plasma membrane. Agonist stimulation promotes depalmitoylation and further allows Ser-345 and Ser-346 phosphorylation.,PTM:Phosphorylated by PKA and BARK upon agonist stimulation, which mediates homologous desensitization of the receptor. PKA-mediated phosphorylation seems to facilitate phosphorylation by BARK. Phosphorylated upon DNA damage, probably by ATM or ATR.,PTM:Phosphorylation of Tyr-141 is induced by insulin and leads to supersensitization of the receptor.,similarity:Belongs to the G-protein coupled receptor 1 family.,subunit:Binds SLC9A3R1 and GPRASP1.,

Research Area

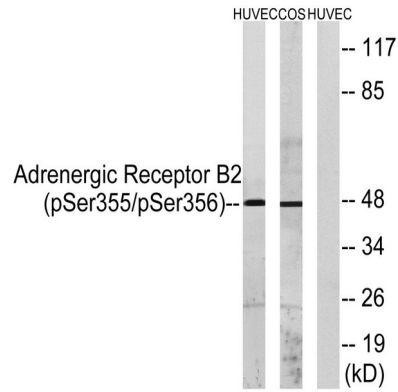
Calcium;Neuroactive ligand-receptor interaction;Endocytosis;

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain, using Adrenergic Receptor B2 (Phospho-Ser355+Ser356) Antibody. The picture on the right is blocked with the phospho peptide.

Product Name: AR-β2 (phospho Ser355/S356) Rabbit Polyclonal Antibody
Catalog #: APRab04265



Western blot analysis of lysates from HUVEC cells treated with serum 20% 15 ' and COS7 cells treated with serum 20% 15 ', using Adrenergic Receptor B2 (Phospho-Ser355+Ser356) Antibody. The lane on the right is blocked with the phospho peptide.

Note

For research use only.