## Product Name: AR-β2 Rabbit Polyclonal Antibody

Catalog #: APRab07196



#### **Summary**

**Production Name** AR-β2 Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

Host Rabbit
Application IF,IHC,WB,

**Reactivity** Human, Rat, Mouse

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

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

ADRB2; ADRB2R; B2AR; Beta-2 adrenergic receptor; Beta-2 adrenoreceptor; Beta-2 Alternative Names

adrenoceptor

**Gene ID** 154.0

P07550.The antiserum was produced against synthesized peptide derived from human **SwissProt ID** 

Adrenergic Receptor beta2. AA range:321-370

### **Application**

WB 1:500 - 1:2000 IHC 1:100 - 1:300. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400.

**Dilution Ratio** 

ELISA: 1:5000. Not yet tested in other applications.

Molecular Weight 47kD

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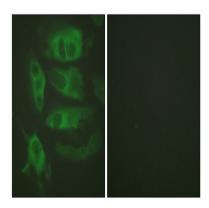
#### **Background**

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 receptorchannel 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-2adrenergic 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**



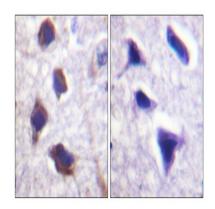
Immunofluorescence analysis of HeLa cells, using Adrenergic Receptor beta2 Antibody. The picture on the right is blocked with the synthesized peptide.

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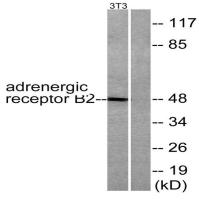
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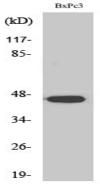




Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Adrenergic Receptor beta2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from NIH/3T3 cells, using Adrenergic Receptor beta2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using AR-\u03b32 Polyclonal Antibody

#### Note

For research use only.