

## AR-β2 (phospho Ser346) Polyclonal Antibody

Catalog No: YP0942

**Reactivity:** Human; Rat; Mouse;

**Applications:** WB;IHC;IF;ELISA

**Target:** Adrenergic Receptor β2

**Fields:** >>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP

signaling pathway;>>Neuroactive ligand-receptor interaction;>>Adrenergic signaling in cardiomyocytes;>>Regulation of lipolysis in adipocytes;>>Renin secretion;>>Salivary secretion;>>Chemical carcinogenesis - receptor activation

Gene Name: ADRB2

**Protein Name :** Beta-2 adrenergic receptor

P07550

P18762

Human Gene Id: 154

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

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Immunogen: The antiserum was produced against synthesized peptide derived from human

Adrenergic Receptor beta2 around the phosphorylation site of Ser346. AA

range:321-370

Specificity: Phospho-AR-β2 (S346) Polyclonal Antibody detects endogenous levels of AR-

β2 protein only when phosphorylated at S346.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Concentration**: 1 mg/ml

**Storage Stability:** -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 40kD

**Cell Pathway:** Calcium; Neuroactive ligand-receptor interaction; Endocytosis;

**Background:** This gene encodes beta-2-adrenergic receptor which is a member of the G

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

protein-coupled receptor superfamily. This receptor is directly associated with one

RefSeq, Jul 2008],

**Function:** 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 recep

Subcellular Location:

Cell membrane; Multi-pass membrane protein. Early endosome. Golgi apparatus. 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). .

**Expression:** Blood, Brain, Fetal brain, Heart, Leukocyte, Prostate, Thyroid,

Tag: orthogonal,hot

**Sort**: 2302

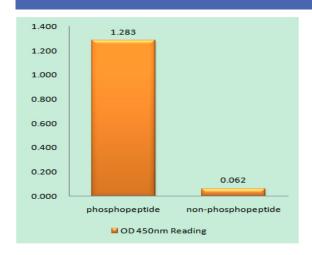
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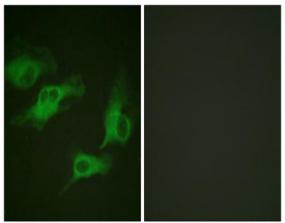
Host: Rabbit

**Modifications:** Phospho

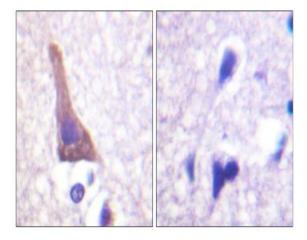
## **Products Images**



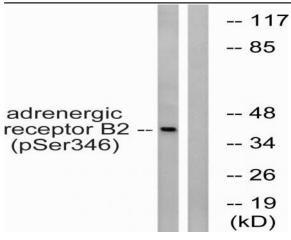
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Adrenergic Receptor beta2 (Phospho-Ser346) Antibody



Immunofluorescence analysis of HeLa cells, using Adrenergic Receptor beta2 (Phospho-Ser346) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using Adrenergic Receptor beta2 (Phospho-Ser346) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated with nocodazole 1ug/ml 16h, using Adrenergic Receptor beta2 (Phospho-Ser346) Antibody. The lane on the right is blocked with the phospho peptide.