

## AR-β2 Polyclonal Antibody

Catalog No: YT5048

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;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 Gene Id: 11555

**Mouse Swiss Prot** 

No:

Rat Swiss Prot No: P10608

**Immunogen:** Synthesized peptide derived from AR-β2 . at AA range: 300-380

Specificity: AR-β2 Polyclonal Antibody detects endogenous levels of AR-β2 protein.

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

Source: Polyclonal, Rabbit, lgG

**Dilution:** WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.

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

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No4:

chromatography using epitope-specific immunogen. **Concentration:** 1 mg/ml -15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability: Observed Band:** 46kD Calcium; Neuroactive ligand-receptor interaction; Endocytosis; **Cell Pathway: 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, cAMPdependent 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], **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 Cell membrane; Multi-pass membrane protein. Early endosome. Golgi apparatus. Colocalizes with VHL at the cell membrane (PubMed:19584355). Location: 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). . Blood, Brain, Fetal brain, Heart, Leukocyte, Prostate, Thyroid, **Expression:** Sort: 2304

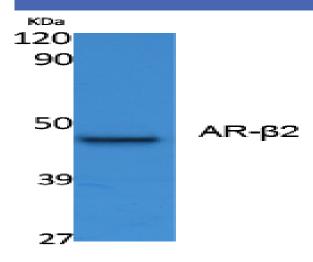
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Host: Rabbit

Modifications: Unmodified

## **Products Images**



Western Blot analysis of extracts from K562 cells, using AR- $\beta$ 2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000