

**Goat Anti-ADRB2R / ADRB2 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1033a****Specification**

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**Goat Anti-ADRB2R / ADRB2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P07550</a>
Other Accession	<a href="#">NP_000015</a> , <a href="#">154</a>
Reactivity	Human, Bovine
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	46459

**Goat Anti-ADRB2R / ADRB2 Antibody - Additional Information****Gene ID** 154**Other Names**

Beta-2 adrenergic receptor, Beta-2 adrenoreceptor, Beta-2 adrenoceptor, ADRB2, ADRB2R, B2AR

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-ADRB2R / ADRB2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-ADRB2R / ADRB2 Antibody - 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).

**Goat Anti-ADRB2R / ADRB2 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-ADRB2R / ADRB2 Antibody - Images**

AF1033a (0.2 µg/ml) staining of human liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-ADRB2R / ADRB2 Antibody - 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.

**Goat Anti-ADRB2R / ADRB2 Antibody - References**

The Arg16Gly- $\beta$ (2)-adrenoceptor single nucleotide polymorphism: exercise capacity and survival in

patients with end-stage heart failure. Leineweber K, et al. Naunyn Schmiedeberg's Arch Pharmacol, 2010 Oct. PMID 20803192.

A46G and C79G polymorphisms in the beta2-adrenergic receptor gene (ADRB2) and essential hypertension risk: a meta-analysis. Lou Y, et al. Hypertens Res, 2010 Aug 26. PMID 20739939.

The Gln27Glu polymorphism in  $\beta$ 2-adrenergic receptor gene is linked to hypertriglyceridemia, hyperinsulinemia and hyperleptinemia in Saudis. Daghestani MH, et al. Lipids Health Dis, 2010 Aug 25. PMID 20738880.

ADRB2 gene variants, dual-energy x-ray absorptiometry body composition, and hypertension in Tobago men of African descent. Beason TS, et al. Metabolism, 2010 Aug 18. PMID 20727557.

Association between Genetic Polymorphisms of Adrenergic Receptor and Diurnal Intraocular Pressure in Japanese Normal-Tension Glaucoma. Gao Y, et al. Ophthalmology, 2010 Aug 10. PMID 20705341.