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Product Information

Recombinant Anti-Human ADRB2 Single Domain Antibody

Cat. No.: **NAB-L100**
This product is for research use only and is not intended for diagnostic use.

Product Overview

Single Domain Antibody to human ADRB2.

Antigen Description

ADRB2 is a member of the G protein-coupled receptor superfamily. It is activated by the catecholamine epinephrine and couples to the G protein Gs to mediate adenylate cyclase activation. The beta-2-adrenergic receptor binds epinephrine with an approximately 30-fold greater affinity than it does norepinephrine. GsaL is the long splice variant of the alpha-subunit of the heterotrimeric G-protein Gs. Gs activates the effector adenylate cyclase. GsaL differs from the short splice variant by a 15 amino acid insert between the ras-like domain and the alpha-helical domain.

Specific Activity

Tested positive against native human antigen.

Target

ADRB2

Immunogen

The details of the immunogen for this antibody are not available.

Source

llama

Species Reactivity

Human

Type

llama Single Domain Antibody

Expression Host

E.coli

Storage

Store it under sterile conditions at -20°C upon receiving. Recommend to pack the protein into smaller quantities for optimal storage.

ANTIGEN GENE INFOMATION

Gene Name

ADRB2 adrenergic, beta-2-, receptor, surface [Homo sapiens]

Official Symbol

ADRB2

Synonyms

ADRB2; adrenergic, beta-2-, receptor, surface; ADRB2R; beta-2 adrenergic receptor; ADRBR; B2AR; BAR; ADRB2; ADRB2_HUMAN; ADRB2R; ADRBR; Adrenergic beta 2 receptor surface; B2AR; BAR; beta 2 adrenoceptor; Beta 2 adrenoreceptor; Beta-2 adrenergic receptor; Beta-2 adrenoceptor; Beta-2 adrenoreceptor; BETA2AR; Catecholamine receptor; OTTHUMP00000160386; OTTHUMP00000160386; beta-2 adrenoceptor; beta-2 adrenoreceptor; catecholamine receptor; BETA2AR

Gene ID

154

mRNA Refseq

NM_000024

Protein Refseq

NP_000015

UniProt ID

P07550

Chromosome Location

5q31-q32

Pathway

Adrenoceptors, organism-specific biosystem; Amine ligand-binding receptors, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem.

Function

G-protein coupled receptor activity; adenylate cyclase binding; adrenergic receptor activity; beta2-adrenergic receptor activity; dopamine binding; drug binding; epinephrine binding; ionotropic glutamate receptor binding; norepinephrine binding; potassium channel regulator activity; protein binding; protein homodimerization activity; receptor activity; signal transducer activity.

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