

Recombinant Human ADRB2 protein, GST-tagged

Cat. No. ADRB2-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADRB2 fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1 a.a. - 413 a.a.
Description	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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	73 kDa
AA Sequence	MGQPGNGSAFLLAPNRSHAPDHDVTQQRDEVWVVGMGIVMSLIVLAIVFGNVLVITA IAKFERLQTVTNYFITSLACADLVMGLAVVPFGAAHILMKMWTFGNFWCEFWTSIDV

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LCVTASIELCVIAVDTRYFAITSPFKYQSLTGNKARVILMVWIVSGLTSFLPIQMHWHY
 RATHQEAINCYANETCCDFFTNQAYAIASSIVSFYVPLVIMVFVYSRVFQEAQRQLQK
 IDKSEGRFHVQNLSQVEQDGRGTGHGLRRSSKFCLKEHKALKTLGIIMGTFTLCWLFP
 FIVNIVHVIQDNLRKEVYILLNWIGYVNSGFNPLIYCRSPDFRIAFQELLCLRRSSLKAY
 GNGYSSNGNTGEQSGYHVEQEKENKLLCEDLPGTEDFVGHQGTVPDNDISQGRN
 CSTNDSLL

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

ADRB2 adrenoceptor beta 2 [Homo sapiens]

Official Symbol

ADRB2

Synonyms

BAR; B2AR; ADRBR; ADRB2R; BETA2AR; adrenergic, beta-2-, receptor, surface;
 adrenoceptor beta 2 surface; beta-2 adrenoceptor; beta-2 adrenoreceptor;
 catecholamine receptor

Gene ID

154

mRNA Refseq

NM_000024

Protein Refseq

NP_000015

MIM

109690

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UniProt ID	P07550
Chromosome Location	5q32
Pathway	Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem; Endocytosis, organism-specific biosystem
Function	adenylate cyclase binding; epinephrine binding; protein binding
	