

Recombinant Human ADRB2 protein

Cat. No. ADRB2-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADRB2 was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
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	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	46.6 kDa
AA Sequence	MGQPGNGSAFLLAPNRSHAPDHDVTQQRDEVWVVGMGIVMSLIVLAIVFGNVLVITA IAKFERLQTVTNYFITSLACADLVMGLAVVPFGAAHILMKMWTFGNFWCEFWTSIDV LCVTASIELCVIAVDYFAITSPFKYQSLLTKNKARVILMVWIVSGLTSFLPIQMHWY RATHQEAINCYANETCCDFFTNQAYAIASSIVSFYVPLVIMVFVYSRVFQEAKRQLQK IDKSEGRFHVQNLSQVEQDGRGTGHGLRRSSKFCLKEHKALKTLGIIMGTFTLCWLFP

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FIVNIVHVIQDNLRKEVYILLNWIGYVNSGFNPLIYCRSPDFRIAFQELLCLRRSSLKAY
GNGYSSNGNTGEQSGYHVEQEKENKLLCEDLPGTEDFVGHQGTVPSDNIDSQGRN
CSTNDSLL

Applications Antibody Production; Functional Study; Compound Screening

Notes Heating may cause protein aggregation. Please do not heat this product before electrophoresis. 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](#)

UniProt ID [P07550](#)

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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

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