

Product datasheet

Recombinant Human beta 2 Adrenergic Receptor protein ab157862

1 Image

Description

Product name	Recombinant Human beta 2 Adrenergic Receptor protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MGQPGNGSAFLLAPNRSHAPDHDVTQQRDEVWVVGMI VMSLVLAVFG NVLVITAIKFERLQTVTNYFITSLACADLMGLAVVPGAA HILMKMWT FGNFWCEFWTSIDVLCVTASIELCVIAVDRIYFAITSPFKYQ SLLTKNKA RVILMVWIVSGLTSFLPIQMHWRATHQEAINCYANETCCD FFTNQAYA IASSVSFYVPLVIMVFVYSRVFQEAQRQLQKIDKSEGRFHV QNLSQVEQ DGRTGHGLRRSSKFCLEKHKALKTLGIIMGTFTLCWLPFFI VNIVHVIQD NLIRKEYYILLNWIGYVNSGFNPLIYCRSPDFRIAFQELLCLR RSSLKAY GNGYSSNGNTGEQSGYHVEQEKENKLLCEDLPGTEDFV GHQGTVPSDNID SQGRNCSTNDSLL</p>
Amino acids	1 to 413
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab157862** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot
	ELISA

Form Liquid

Additional notes

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
pH: 8.00
Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

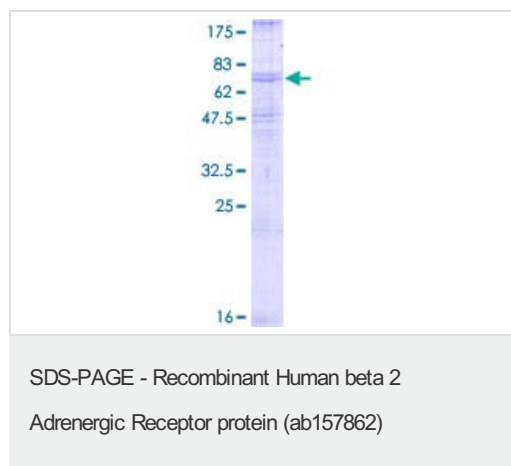
Function Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds epinephrine with an approximately 30-fold greater affinity than it does norepinephrine.

Sequence similarities Belongs to the G-protein coupled receptor 1 family. Adrenergic receptor subfamily. ADRB2 sub-subfamily.

Post-translational modifications 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.
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. Phosphorylation of Tyr-141 is induced by insulin and leads to supersensitization of the receptor. Ubiquitinated. Agonist-induced ubiquitination leads to sort internalized receptors to the lysosomes for degradation. Deubiquitination by USP20 and USP33, leads to ADRB2 recycling and resensitization after prolonged agonist stimulation. USP20 and USP33 are constitutively associated and are dissociated immediately after agonist stimulation.

Cellular localization Cell membrane.

Images



ab157862 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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