

Recombinant Rat Adrb2 Protein, His-tagged

Cat. No. Adrb2-89R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Adrb2 Protein (Pro330-Leu418) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Pro330-Leu418
Description	Enables several functions, including G-protein alpha-subunit binding activity; beta2-adrenergic receptor activity; and signaling receptor binding activity. Involved in several processes, including chemical synaptic transmission; positive regulation of ion transport; and response to steroid hormone. Located in several cellular components, including caveola; neuronal cell body membrane; and sarcolemma. Is active in glutamatergic synapse. Used to study cardiomyopathy (multiple); congestive heart failure; kidney disease (multiple); and lung disease (multiple). Biomarker of several diseases, including acute kidney failure; artery disease (multiple); congestive heart failure; polycystic ovary syndrome; and ulcerative colitis. Human ortholog(s) of this gene implicated in several diseases, including autoimmune disease (multiple); disease of metabolism (multiple); kidney failure (multiple); lung disease (multiple); and open-angle glaucoma (multiple). Orthologous to human ADRB2 (adrenoceptor beta 2).
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 9.8 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Adrb2 adrenergic, beta-2-, receptor, surface [Rattus norvegicus (Norway rat)]
Official Symbol	Adrb2
Synonyms	ADRB2; adrenergic, beta-2-, receptor, surface; beta-2 adrenergic receptor; beta-2 adrenoceptor; beta-2 adrenoreceptor; adrenergic receptor, beta 2; Adrenergic beta 2-receptor surface
Gene ID	24176
mRNA Refseq	NM_012492

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Protein Refseq NP_036624

UniProt ID P10608



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