

Recombinant Human Adrenergic, Beta, Receptor Kinase 1, GST-tagged

Cat. No. ADRBK1-1019H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human ADRBK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	ADRBK1 is a ubiquitous cytosolic enzyme that specifically phosphorylates the activated form of the beta-adrenergic and related G protein-coupled receptors. ADRBK1 phosphorylates the beta-2-adrenergic receptor and appears to mediate agonist-specific desensitization. Abnormal coupling of beta-adrenergic receptor to G protein is involved in the pathogenesis of the failing heart.
Applications	Kinase Assay; Western Blot
Molecular Weight	102 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	>90%

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Concentration	0.1 ug/ul
Specific Activity	5.3 nmol/min/mg
Sequences	Full length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	CXCR4-mediated signaling events; Ca-dependent events; CaM pathway; Calmodulin induced events; Chemokine signaling pathway; Endocytosis; G alpha (q) signalling events; G-protein mediated events; GPCR downstream signaling; Glutamatergic synapse; Opioid Signalling; PLC beta mediated events; PLC-gamma1 signalling; Signalling by NGF; Signalling by NGF

GENE INFORMATION

Gene Name	ADRBK1 adrenergic, beta, receptor kinase 1 [Homo sapiens]
Official Symbol	ADRBK1
Synonyms	ADRBK1; adrenergic, beta, receptor kinase 1; GRK2; BARK1; FLJ16718; BETA-ARK1; beta-adrenergic receptor kinase 1; beta-ARK-1; OTTHUMP00000235171; G-protein coupled receptor kinase 2
Gene ID	156
mRNA Refseq	NM_001619
Protein Refseq	NP_001610

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MIM	109635
UniProt ID	P25098
Chromosome Location	11q13
Function	ATP binding; Edg-2 lysophosphatidic acid receptor binding; G-protein coupled receptor kinase activity; alpha-2A adrenergic receptor binding; beta-adrenergic receptor kinase activity; nucleotide binding; protein binding; protein kinase activity; signal transducer activity

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