

Datasheet for ABIN7317491

GRK2 Protein (GST tag,His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	GRK2 (ADRBK1)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRK2 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human GRK2/ADRBK1 Protein (His & GST Tag)
Sequence:	Met 1-Leu 689
Characteristics:	A DNA sequence encoding the human ADRBK1 (NP_001610.2) (Met 1-Leu 689) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	GRK2 (ADRBK1)
Alternative Name:	GRK2/ADRBK1 (ADRBK1 Products)
Background:	Background: G-protein coupled receptor kinase 2 (GRK2), also referred as Adrenergic, beta, receptor kinase 1 (ADRBK1), is a ubiquitous member of the G protein-coupled receptor kinase (GRK) family that appears to play a central, integrative role in signal transduction cascades.

Target Details

GRK2 can phosphorylate a growing number of non-GPCR substrates and associate with a variety of proteins related to signal transduction, thus suggesting that this kinase could also have diverse 'effector' functions. GRK2 has been reported to interact with a variety of signal transduction proteins related to cell migration such as MEK, Akt, PI3Kgamma or GIT. Interestingly, the levels of expression and activity of this kinase are altered in a number of inflammatory disorders (as rheumatoid arthritis or multiple sclerosis), thus suggesting that GRK2 may play an important role in the onset or development of these pathologies. The important physiological function of GRK2 as a modulator of the efficacy of GPCR signal transduction systems is exemplified by its relevance in cardiovascular physiopathology as well as by its emerging role in the regulation of chemokine receptors. Besides its canonical role in the modulation of the signalling mediated by many G protein-coupled receptors (GPCR), this protein can display a very complex network of functional interactions with a variety of signal transduction partners, in a stimulus, cell type, or context-specific way.

Synonym: BARK1,BETA-ARK1,GRK2

Molecular Weight:	107 kDa
NCBI Accession:	NP_001610
Pathways:	EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of G-Protein Coupled Receptor Protein Signaling , CXCR4-mediated Signaling Events , G-protein mediated Events , Interaction of EGFR with phospholipase C-gamma , Thromboxane A2 Receptor Signaling

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Tris, 500 mM NaCl, 0.5 mM GSH, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.