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Datasheet for ABIN2729786 PRKAG1 Protein (Catalytic Subunit, Transcript Variant 2) (Myc-DYKDDDDK Tag)



Image

Overview

Quantity:	20 µg
Target:	PRKAG1
Protein Characteristics:	Catalytic Subunit, Transcript Variant 2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRKAG1 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)
Product Details	
Characteristics:	 Recombinant human Protein kinase, AMP-activated, gamma 1 non-catalytic subunit (PRKAG1), transcript variant 2 (transcript variant 2) protein expressed in HEK293 cells. Produced with end-sequenced ORF clone
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Target Details	
Target:	PRKAG1
Abstract:	PRKAG1 Products
Background:	The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase

(AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta

and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular

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Target Details

	energy status. In response to cellular metabolic stresses, AMPK is activated, and thus
	phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-
	methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo
	biosynthesis of fatty acid and cholesterol. This subunit is one of the gamma regulatory
	subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have
	been observed.
Molecular Weight:	28.1 kDa
NCBI Accession:	NP_997626
Pathways:	AMPK Signaling, Regulation of Carbohydrate Metabolic Process, Warburg Effect
Application Details	
Application Notes:	Recombinant human proteins can be used for:
	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

Handling

Concentration:	50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



Western Blotting

Image 1. Validation with Western Blot

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