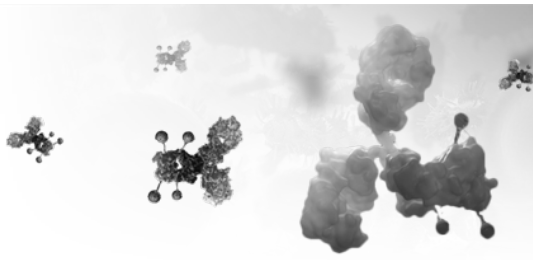

Human PRKAG3 blocking peptide (CDBP2385)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-PRKAG3 antibody
Antigen Description	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 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. It is dominantly expressed in skeletal muscle. Studies of the pig counterpart suggest that this subunit may play a key role in the regulation of energy metabolism in skeletal muscle. [provided by RefSeq, Jul 2008]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	PRKAG3 protein kinase, AMP-activated, gamma 3 non-catalytic subunit [Homo sapiens]

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Official Symbol	PRKAG3
Synonyms	PRKAG3; protein kinase, AMP-activated, gamma 3 non-catalytic subunit; 5-AMP-activated protein kinase subunit gamma-3; AMPK gamma3; AMPK gamma-3 chain; AMPK subunit gamma-3; 5-AMP-activated protein kinase, gamma-3 subunit; AMPKG3;
Entrez Gene ID	53632
mRNA Refseq	NM_017431
Protein Refseq	NP_059127
UniProt ID	Q9UGI9
Chromosome Location	2
Pathway	AMPK signaling, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Energy Metabolism, organism-specific biosystem; Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem;
Function	AMP-activated protein kinase activity; ATP binding; nucleotide binding; protein kinase binding;

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