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anti-PRKAG1 antibody (N-Term)

3 Images



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Overview

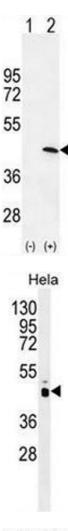
Quantity:	0.4 mL
Target:	PRKAG1
Binding Specificity:	AA 5-33, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAG1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)
Product Details	
Immunogen:	KLH conjugated synthetic peptide between 5-33 amino acids from the N-terminal region of human PRKAG1
Isotype:	Ig Fraction
Specificity:	This antibody reacts to PRKAG1.
Cross-Reactivity (Details):	Species reactivity (tested):Human and Mouse.
Purification:	Affinity chromatography on Protein A
Target Details	
Target:	PRKAG1
Alternative Name:	AMPK gamma-1 Chain / AMPKg (PRKAG1 Products)

Target Details

Storage Comment:

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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
	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. Synonyms: 5'-AMP-activated protein kinase subunit gamma-1, PRKAG1
Molecular Weight:	37579 Da
Gene ID:	5571
NCBI Accession:	NP_001193638
Pathways:	AMPK Signaling, Regulation of Carbohydrate Metabolic Process, Warburg Effect
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS, 0.09 % (W/V) sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C

Store the antibody undiluted at 2-8 $^{\circ}$ C for one month or (in aliquots) at -20 $^{\circ}$ C for longer.



Western Blotting

Image 1. Western blot analysis of PRKAG1 (arrow) using rabbit polyclonal PRKAG1 Antibody (N-term) . 293 cell lysates (2 μ g/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PRKAG1 gene.

Western Blotting

Image 2. PRKAG1 Antibody (N-term) western blot analysis in Hela cell line lysates (35µg/lane). This demonstrates the PRKAG1 antibody detected the PRKAG1 protein (arrow).

m.bladder

Western Blotting

Image 3. PRKAG1 Antibody (N-term) western blot analysis in mouse bladder tissue lysates (35µg/lane). This demonstrates the PRKAG1 antibody detected the PRKAG1 protein (arrow).