Rabbit anti-Human PRKAG2 Polyclonal Antibody | anti-PRKAG2 antibody

PRKAG2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA301981	**Rabbit**	**Human**	**Immunofluorescence, Immunohistochemistry, Western Blot**

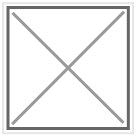
PRODUCT SYNONYMS

PRKAG2; Polyclonal Antibody; PRKAG2 Antibody; 5'-AMP-activated protein kinase subunit gamma-2; AAKG2; AMPK gamma-2 chain; AMPK gamma2; H91620p; anti-PRKAG2 antibody

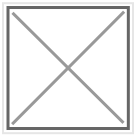
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of total PRKAG2 protein.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	525
Applicable Applications for anti-PRKAG2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human PRKAG2.
Target Name	PRKAG2
Preparation and Storage	Store at -20 degree C

IMAGES



IF (Immunofluorescence)
Immunofluorescence analysis of A549 cells, using PRKAG2 antibody.



IHC (Immunohiostchemistry)
Immunohistochemistry analysis of paraffin-embedded human heart tissue, using PRKAG2 antibody.

WB (Western Blot)
Western blot analysis of extracts from K562 cells, using PRKAG2 antiobdy.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAG2 antibody	AMP/ATP-binding subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Gamma non-catalytic subunit mediates binding to AMP, ADP and ATP, leading to activate or inhibit AMPK: AMP-binding results in allosteric activation of alpha catalytic subunit (PRKAA1 or PRKAA2) both by inducing phosphorylation and preventing dephosphorylation of catalytic subunits. ADP also stimulates phosphorylation, without stimulating already phosphorylated catalytic subunit. ATP promotes dephosphorylation of catalytic subunit, rendering the AMPK enzyme inactive.Cheung P.C.F., Biochem. J. 346:659-669(2000).Lang T.M., Genomics 70:258-263(2000).Ota T., Nat. Genet. 36:40-45(2004).
Product Categories/Family for anti-PRKAG2 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	100913192
NCBI GeneID	51422
NCBI Accession #	NP_001035723.1
NCBI GenBank Nucleotide #	NM_001040633.1
UniProt Accession #	Q9UGJ0; Q53Y07; Q6NUI0; Q75MP4; Q9NUZ9; Q9UDN8; Q9ULX8
Molecular Weight	58,439 Da
NCBI Official Full Name	5'-AMP-activated protein kinase subunit gamma-2 isoform c
NCBI Official Synonym Full Names	protein kinase, AMP-activated, gamma 2 non-catalytic subunit
NCBI Official Symbol	PRKAG2
NCBI Official Synonym Symbols	AAKG; CMH6; WPWS; AAKG2; H91620p
NCBI Protein Information	5'-AMP-activated protein kinase subunit gamma-2
UniProt Protein Name	5'-AMP-activated protein kinase subunit gamma-2
UniProt Gene Name	**PRKAG2**
UniProt Synonym Gene Names	AMPK gamma2; AMPK subunit gamma-2
UniProt Entry Name	AAKG2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/prkag2-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/301981