

Rabbit PRKAA1 Polyclonal Antibody | anti-PRKAA1 antibody

PRKAA1 antibody - N-terminal region

CATALOG # AAA200336	HOST Rabbit	REACTIVITY Human, Rabbit, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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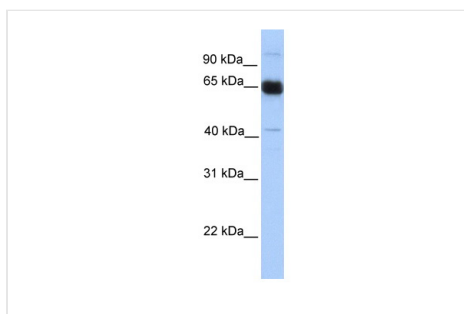
PRODUCT SYNONYMS

PRKAA1; Polyclonal Antibody; PRKAA1 antibody - N-terminal region; anti-PRKAA1 antibody

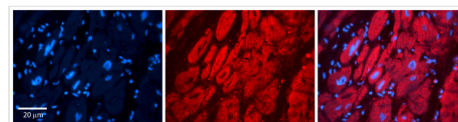
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rabbit, Rat
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide located within the following region: GE LFDYICKNGR KSDVPGVVKT GSTKELDEKE SRRLFQQILS GVDYCHRH
Sequence Length	565
Applicable Applications for anti-PRKAA1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Homology	Human: 100%; Rabbit: 85%; Rat: 85%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human PRKAA1
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES


WB (Western Blot)

WB Suggested Anti-PRKAA1 Antibody Titration: 0.2-1 ug/ml Positive Control: Human Muscle


IHC (Immunohistochemistry)

Rabbit Anti-PRKAA1 Antibody Formalin Fixed Paraffin Embedded Tissue: Human heart Tissue Observed Staining: Cytoplasmic Primary Antibody Concentration: 1:100 Other Working Concentrations: N/A Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAA1 antibody	This is a rabbit polyclonal antibody against PRKAA1. It was validated on Western Blot using a cell lysate as a positive control. Target Description: PRKAA1 belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways.The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
Product Categories/Family for anti-PRKAA1 antibody	Polyclonal; Lymphocyte Signaling; Autophagy; Hypoxia; Phosphorylation; Transcription Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	94557299
NCBI GeneID	5562
NCBI Accession #	NP_996790
NCBI GenBank Nucleotide #	NM_206907
UniProt Accession #	Q13131
Molecular Weight	62kDa
NCBI Official Full Name	5'-AMP-activated protein kinase catalytic subunit alpha-1 isoform 2
NCBI Official Synonym Full Names	protein kinase AMP-activated catalytic subunit alpha 1
NCBI Official Symbol	PRKAA1
NCBI Official Synonym Symbols	AMPK; AMPKa1
NCBI Protein Information	5'-AMP-activated protein kinase catalytic subunit alpha-1
UniProt Protein Name	5'-AMP-activated protein kinase catalytic subunit alpha-1
UniProt Gene Name	PRKAA1
UniProt Synonym Gene Names	AMPK1; AMPK subunit alpha-1; ACACA kinase; HMGCR kinase
UniProt Entry Name	AAPK1_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/prkaa1-antibody-immunohistochemistry-western-blot-elisa/200336>