

Rabbit PRKAA1 Polyclonal Antibody | anti-PRKAA1 antibody

PRKAA1 antibody - middle region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA200314	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Sheep, Zebrafish	Western Blot

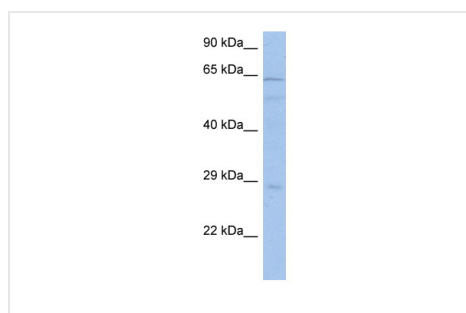
PRODUCT SYNONYMS

PRKAA1; Polyclonal Antibody; PRKAA1 antibody - middle region; anti-PRKAA1 antibody

PRODUCT SPECIFICATIONS

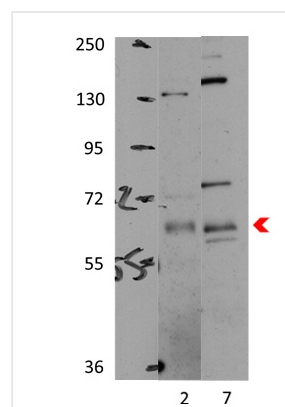
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Sheep, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: SV ISLLKHMLQV DPMKRATIKD IREHEWFKQD LPKYLPEDP SYSSTMID
Sequence Length	559
Applicable Applications for anti-PRKAA1 antibody	WB (Western Blot)
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Sheep: 93%; Zebrafish: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the middle 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



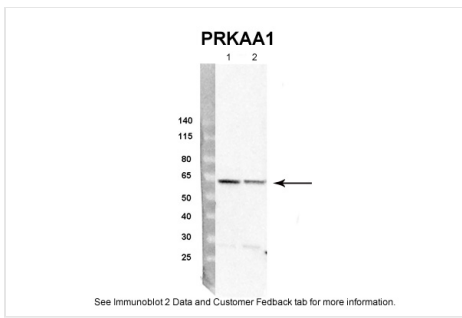
WB (Western Blot)

WB Suggested Anti-PRKAA1 Antibody Titration: 0.2-1 ug/ml
 ELISA Titer: 1:312500
 Positive Control: COLO205 cell lysate



WB (Western Blot)

PRKAA1 antibody - middle region validated by WB using Rat liver and Mouse muscle at 1:1000.



WB (Western Blot)

Sample Type: Rat hepatocyte
Sample Type: rat hepatocyte (50ug)
Primary Antibody: Donkey anti-Rabbit HRP
Secondary Antibody: Donkey anti-Rabbit HRP
Dilution: 1:4000
Dilution: 1:10,000
Image Submitted By: Dustin Singer, INRA/AgroParistech

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 #	94557301
NCBI GeneID	5562
NCBI Accession #	NP_006242
NCBI GenBank Nucleotide #	NM_006251
UniProt Accession #	Q13131
Molecular Weight	63kDa
NCBI Official Full Name	5'-AMP-activated protein kinase catalytic subunit alpha-1 isoform 1
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

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-western-blot-elisa/200314>