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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)



Product Number	ARP53652_P050-HRP
Product Page	www.avivasysbio.com/prkaa1-antibody-middle-region-hrp-arp53652-p050-hrp.html
Name	PRKAA1 Antibody - middle region : HRP (ARP53652_P050-HRP)
Protein Size (# AA)	559 amino acids
Molecular Weight	63kDa
Subunit	alpha-1
Conjugation	HRP: Horseradish Peroxidase
NCBI Gene Id	5562
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Protein kinase, AMP-activated, alpha 1 catalytic subunit
Alias Symbols	AMPK, AMPKa1, AMPK alpha 1
Peptide Sequence	Synthetic peptide located within the following region: SVISLLKHMLQVDPMKRATIKDIREHEWFKQDLPKYLPEDPSYSSTMID
Product Format	Liquid. Purified antibody is supplied in high phosphate PBS, 100 mM phosphate, 150 mM NaCl, pH 7.6.
Reference	Hasumi,H., Gene 415 (1-2), 60-67 (2008)
Description of Target	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.
Protein Interactions	PRKAG1; PRKAB2; PRKAB1; GOLGA2; PHC2; CTBP1; CDX4; AES; Trp53; INO80E; RFX6; TRIM27; KRT40; SSX2IP; PNMA5; UBXN11; RIMBP3; L3MBTL3; TSC22D4; VPS37B; HMBOX1; HOMEZ; THAP1; ROPN1; RAD54B; MTUS2; IKZF3; RBPMS; ABI2; ZBED1; BHLHE40; TRIP6; STK11; VPS52; PPARG
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-PRKAA1 (ARP53652_P050-HRP) antibody
Blocking Peptide	For anti-PRKAA1 (ARP53652_P050-HRP) antibody is Catalog # AAP53652 (Previous Catalog # AAP30492)
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human PRKAA1
Uniprot ID	Q13131
Protein Name	5'-AMP-activated protein kinase catalytic subunit alpha-1
Protein Accession #	NP_006242
Purification	Affinity Purified
Nucleotide Accession #	NM_006251

Gene Symbol	PRKAA1
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Sheep, Zebrafish
Application	WB
Predicted Homology Based on Immunogen Sequence	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Sheep: 93%; Zebrafish: 100%
Image 1	

AVIVA SYSTEMS BIOLOGY manufactures and sells quality antibody products covering genome wide proteins.

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Optimal conditions of its use should be determined by end users.