

Mouse anti-Human AMPKa1/AMPKa2 Monoclonal Antibody | anti-PRKAA1/PRKAA2 antibody

AMPKa1/AMPKa2 Mouse mAb

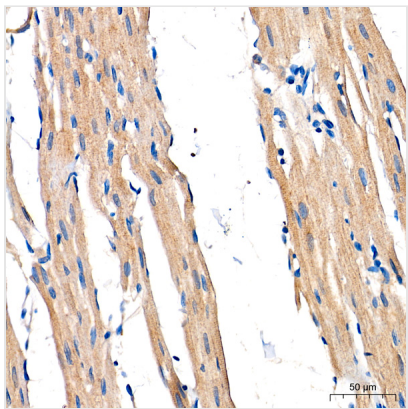
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28599	Mouse	Human	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

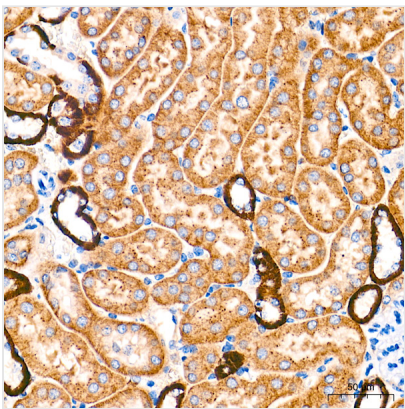
AMPKa1/AMPKa2; Monoclonal Antibody; AMPKa1/AMPKa2 Mouse mAb; anti-PRKAA1/PRKAA2 antibody

PRODUCT SPECIFICATIONS

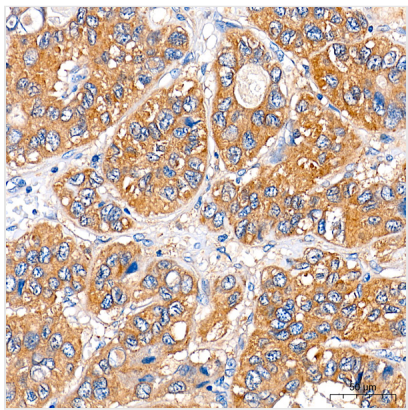
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a kappa
Purity/Purification	Affinity purification
Sequence	SVISLLKHML QVDPMKRATI KDIREHEWFK QDLPKYLPE DPSYSSTMID DEALKEVCEK FECSEEEVLS CLYNRNHQDP LAVAYHLIID NRRIMNEAKD FYLATSPDPS FLDDHHLTRP HPERVPFLVA ETPRARHTLD ELNPQKSKHQ GVRKAKWHLG IRSQSRPNDI MAEVCRAIKQ LDYEWKVVP YYLRVRRKNP VTSTYSKMSL QLYQVDSRTY LLDFRSIDDE ITEAKSGTAT PQRSGSVSNY RSCQRSDDA EAQGKSSEVS LTSSVTSLDS SPVDLTPRPG SHTIEFFEMC
Applicable Applications for anti-PRKAA1/PRKAA2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Application Notes	WB: 1:1000-1:2000 IHC-P: 1:100-1:500 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Cross Reactivity	Human, Mouse, Rat
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 251-550 of human AMPKalpha1 (Q13131).
Preparation and Storage	Store at 4 degree C. Avoid freeze/thaw cycles.



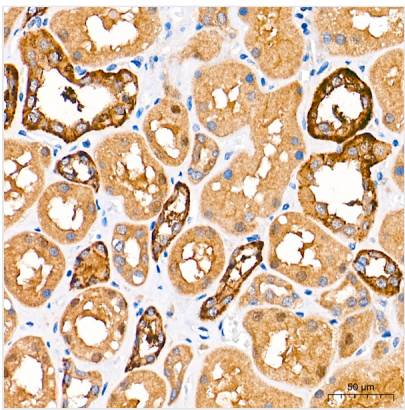
IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded Rat heart tissue using AMPKα1/AMPKα2 Mouse mAb (AAA28599) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



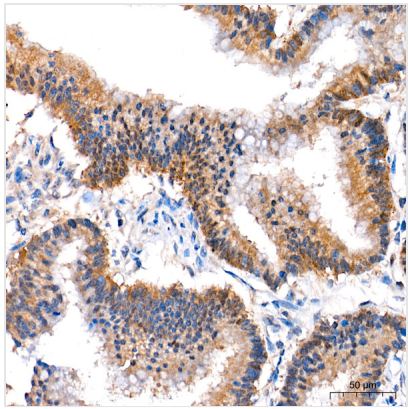
IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using AMPKα1/AMPKα2 Mouse mAb (AAA28599) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



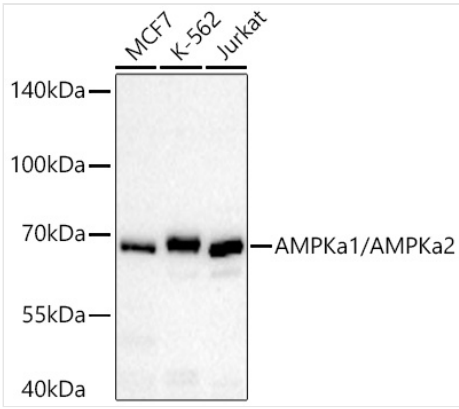
IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using AMPKα1/AMPKα2 Mouse mAb (AAA28599) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using AMPKα1/AMPKα2 Mouse mAb (AAA28599) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using AMPKα1/AMPKα2 Mouse mAb (AAA28599) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



WB (Western Blot)
Western blot analysis of various lysates using AMPKα1/AMPKα2 Mouse mAb (AAA28599) at 1:1000 dilution incubated overnight at 4?. Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution. Lysates/proteins: 25 ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 45s.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAA1/PRKAA2 antibody	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/PRKAA2 antibody	Protein phosphorylation; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	27469582
NCBI GeneID	5562/5563
UniProt Accession #	Q13131; P54646
Molecular Weight	Calculated MW: 64kDa/65kDa Observed MW: 63kDa
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/ampka1-ampka2-antibody-western-blot-immunohistochemistry-elisa/28599>