

Rabbit anti-Human AK1 Polyclonal Antibody | anti-AK1 antibody

AK1 Antibody (N-term)

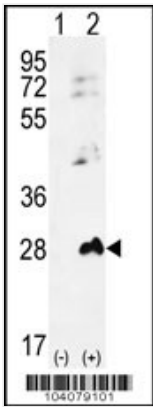
CATALOG # AAA289061	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

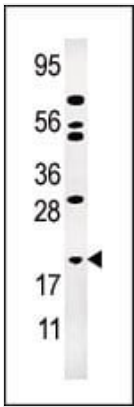
AK1; Polyclonal Antibody; AK1 Antibody (N-term); Adenylate kinase isoenzyme 1 {ECO:0000255|HAMAP-Rule:MF_03171}; AK 1 {ECO:0000255|HAMAP-Rule:MF_03171}; 2743 {ECO:0000255|HAMAP-Rule:MF_03171}; 2746 {ECO:0000255|HAMAP-Rule:MF_03171}; ATP-AMP transphosphorylase 1 {ECO:0000255|HAMAP-Rule:MF_03171}; ATP:AMP phosphotransferase {ECO:0000255|HAMAP-Rule:MF_03171}; Adenylate monophosphate kinase {ECO:0000255|HAMAP-Rule:MF_03171}; Myokinase {ECO:0000255|HAMAP-Rule:MF_03171}; AK1 {ECO:0000255|HAMAP-Rule:MF_03171}; anti-AK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 30-59 amino acids from the N-terminal region of human AK1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	30-59
Sequence Length	194
Applicable Applications for anti-AK1 antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
Western blot analysis of AK1 (arrow) using rabbit polyclonal AK1 Antibody (S45). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the AK1 gene.



WB (Western Blot)
Western blot analysis of anti-AK1 Pab in Jurkat cell line lysate (35ug/lane). AK1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-AK1 antibody	Adenylate kinase is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate group among adinine nucleotides. Three isozymes of adenylate kinase have been identified in vertebrates, adenylate isozyme 1 (AK1), 2 (AK2) and 3 (AK3). AK1 is found in the cytosol of skeletal muscle, brain and erythrocytes, whereas AK2 and AK3 are found in the mitochondria of other tissues including liver and heart. AK1 was identified because of its association with a rare genetic disorder causing nonspherocytic hemolytic anemia where a mutation in the AK1 gene was found to reduce the catalytic activity of the enzyme.
Product Categories/Family for anti-AK1 antibody	Cardiovascular; Metabolism; Signal transduction
References	Corrons, J.L., et al., Blood 102(1):353-356 (2003). Toren, A., et al., Br. J. Haematol. 87(2):376-380 (1994). Zuffardi, O., et al., Hum. Genet. 82(1):17-19 (1989). Matsuura, S., et al., J. Biol. Chem. 264(17):10148-10155 (1989). Miwa, S., et al., Am. J. Hematol. 14(4):325-333 (1983).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502011
NCBI GeneID	203
NCBI Accession #	NP_000467.1
NCBI GenBank Nucleotide #	NM_000476.2
UniProt Accession #	P00568; Q9BVK9; Q9UQC7
Molecular Weight	21635
NCBI Official Full Name	adenylate kinase isoenzyme 1
NCBI Official Synonym Full Names	adenylate kinase 1
NCBI Official Symbol	AK1
NCBI Official Synonym Symbols	HTL-S-58j
NCBI Protein Information	adenylate kinase isoenzyme 1
UniProt Protein Name	Adenylate kinase isoenzyme 1

UniProt Gene Name	AK1
UniProt Synonym Gene Names	AK 1
UniProt Entry Name	KAD1_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://www.aaabiotech.com/polyclonal/ak1-antibody-western-blot-elisa/289061>