

AK1 Antibody (C-term)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8620b

Specification

AK1 Antibody (C-term) - Product Information

Application WB,E
Primary Accession P00568
Reactivity Human
Host Mouse
Clonality monoclonal
Isotype IgG1,k
Calculated MW 21635

AK1 Antibody (C-term) - Additional Information

Gene ID 203

Other Names

Adenylate kinase isoenzyme 1 {ECO:0000255|HAMAP-Rule:MF_03171}, AK 1 {ECO:0000255|HAMAP-Rule:MF_03171}, 2.7.4.3 {ECO:0000255|HAMAP-Rule:MF_03171}, 2.7.4.6 {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}

Target/Specificity

This AK1 antibody is generated from a mouse immunized with a recombinant protein between 1-193 amino acids from human AK1.

Dilution

WB~~1:4000

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

AK1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

AK1 Antibody (C-term) - Protein Information



Name AK1 {ECO:0000255|HAMAP-Rule:MF 03171}

Function Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP (PubMed:2542324). Exhibits nucleoside diphosphate kinase activity, catalyzing the production of ATP, CTP, GTP, UTP, dATP, dCTP, dGTP and dTTP from the corresponding diphosphate substrates with either ATP or GTP as phosphate donor (PubMed:23416111). Also catalyzes at a very low rate the synthesis of thiamine triphosphate (ThTP) from thiamine diphosphate (ThDP) and ADP (By similarity).

Cellular Location

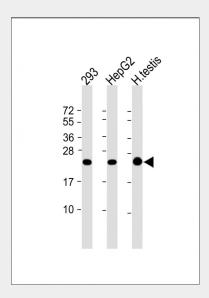
Cytoplasm {ECO:0000250|UniProtKB:P05081}.

AK1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AK1 Antibody (C-term) - Images



All lanes: Anti-AK1 Antibody (C-term) at 1:4000 dilution Lane 1: 293 whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: Human testis lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 22 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

AK1 Antibody (C-term) - Background

Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Also displays broad nucleoside diphosphate kinase activity. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism.





AK1 Antibody (C-term) - References

von Zabern I.,et al.Eur. J. Biochem. 68:281-290(1976). Matsuura S.,et al.J. Biol. Chem. 264:10148-10155(1989). Noma T.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases. Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Lubec G.,et al.Submitted (DEC-2008) to UniProtKB.