

AK1 / Adenylate Kinase 1 Antibody (aa101-150)
Rabbit Polyclonal Antibody
Catalog # ALS15435**Specification****AK1 / Adenylate Kinase 1 Antibody (aa101-150) - Product Information**

Application	IF, IHC
Primary Accession	P00568
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22kDa KDa

AK1 / Adenylate Kinase 1 Antibody (aa101-150) - 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

KAD1 Antibody detects endogenous levels of total KAD1 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

AK1 / Adenylate Kinase 1 Antibody (aa101-150) is for research use only and not for use in diagnostic or therapeutic procedures.

AK1 / Adenylate Kinase 1 Antibody (aa101-150) - 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}.

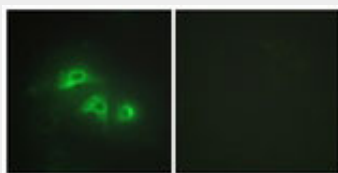
Volume

50 μ l

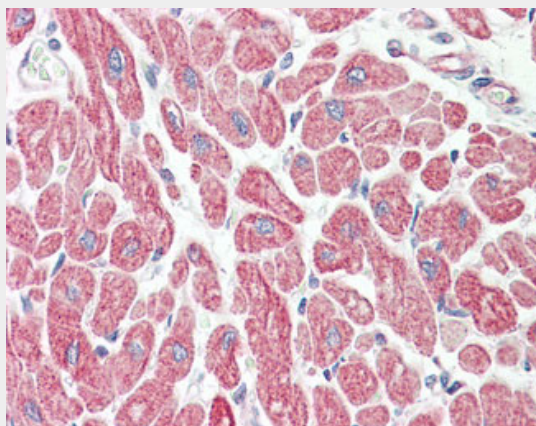
AK1 / Adenylate Kinase 1 Antibody (aa101-150) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AK1 / Adenylate Kinase 1 Antibody (aa101-150) - Images

Immunofluorescence of HepG2 cells, using KAD1 Antibody.



Anti-AK1 antibody IHC of human heart.

AK1 / Adenylate Kinase 1 Antibody (aa101-150) - 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 / Adenylate Kinase 1 Antibody (aa101-150) - 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.