

**Product Name: Adenylate kinase 4 (14Y15) Rabbit
Monoclonal Antibody
Catalog #: AMRe06624**

Summary

Production Name	Adenylate kinase 4 (14Y15) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	AK4 {ECO:0000255 HAMAP-Rule:MF_03170}
Alternative Names	AK3; AK3L1; AK3L2; AK4;
Gene ID	205.0
SwissProt ID	P27144.A synthetic peptide of human AK3L1

Application

Dilution Ratio	WB: 1:1000
Molecular Weight	25kDa

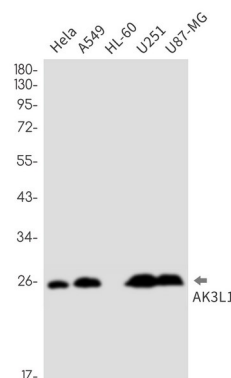
Background

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Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. May also be active with GTP. Involved in maintaining the homeostasis of cellular nucleotides by catalyzing the interconversion of nucleoside phosphates (PubMed: [19073142](http://www.uniprot.org/citations/19073142), PubMed: [19766732](http://www.uniprot.org/citations/19766732), PubMed: [23416111](http://www.uniprot.org/citations/23416111), PubMed: [24767988](http://www.uniprot.org/citations/24767988)). Efficiently phosphorylates AMP and dAMP using ATP as phosphate donor, but phosphorylates only AMP when using GTP as phosphate donor (PubMed: [19073142](http://www.uniprot.org/citations/19073142), PubMed: [19766732](http://www.uniprot.org/citations/19766732), PubMed: [23416111](http://www.uniprot.org/citations/23416111)). Also displays broad nucleoside diphosphate kinase activity (PubMed: [19073142](http://www.uniprot.org/citations/19073142), PubMed: [19766732](http://www.uniprot.org/citations/19766732), PubMed: [23416111](http://www.uniprot.org/citations/23416111)). Plays a role in controlling cellular ATP levels by regulating phosphorylation and activation of the energy sensor protein kinase AMPK (PubMed: [24767988](http://www.uniprot.org/citations/24767988), PubMed: [26980435](http://www.uniprot.org/citations/26980435)). Plays a protective role in the cellular response to oxidative stress (PubMed: [19130895](http://www.uniprot.org/citations/19130895), PubMed: [23474458](http://www.uniprot.org/citations/23474458), PubMed: [26980435](http://www.uniprot.org/citations/26980435)).

Research Area

Image Data



Western blot detection of AK3L1 in HeLa, A549, HL-60, U251, U87-MG cell lysates using AK3L1 antibody (1:1000 diluted).

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Note

For research use only.