

Anti-AK1 antibody



Description	Rabbit polyclonal to AK1.
Model	STJ91521
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC
Immunogen	Synthesized peptide derived from human AK1
Immunogen Region	70-150 aa, Internal
Gene ID	203
Gene Symbol	AK1
Dilution range	IHC 1:100-1:300IF 1:200-1:1000ELISA 1:5000
Specificity	AK1 Polyclonal Antibody detects endogenous levels of AK1 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Adenylate kinase isoenzyme 1 AK 1 ATP-AMP transphosphorylase 1 ATP:AMP phosphotransferase Adenylate monophosphate kinase Myokinase
Molecular Weight	21.635 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:361OMIM:103000
Alternative Names	Adenylate kinase isoenzyme 1 AK 1 ATP-AMP transphosphorylase 1 ATP:AMP phosphotransferase Adenylate monophosphate kinase Myokinase
Function	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.
Sequence and Domain Family	Consists of three domains, a large central CORE domain and two small peripheral domains, NMPbind and LID, which undergo movements during catalysis. The LID domain closes over the site of phosphoryl transfer upon ATP binding. Assembling and dissambling the active center during each catalytic cycle provides an effective means to prevent ATP hydrolysis.
Cellular Localization	Cytoplasm.