

KD-Validated Anti-Adenylate Kinase 1 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI1790

Product Information

Application	WB, ICC
Primary Accession	P00568
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Clone Names	24GB2940
Calculated MW	21635
Gene Name	AK1
Aliases	AK1; Adenylate Kinase 1; Adenylate Monophosphate Kinase; Adenylate Kinase Isoenzyme 1; ATP-AMP Transphosphorylase 1; ATP:AMP Phosphotransferase; EC 2.7.4.3; Myokinase; Testis Secretory Sperm Binding Protein Li 58j; Epididymis Secretory Sperm Binding Protein; EC 2.7.4.10; EC 2.7.4.6; HTL-S-58j; EC 2.7.4; AK 1
Immunogen	Recombinant protein of human Adenylate Kinase 1

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, 2.7.4.4, 2.7.4.6 {ECO:0000255 HAMAP-Rule:MF_03171, ECO:0000269 PubMed:23416111}, 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, ECO:0000312 HGNC:HGNC:361}

Protein Information

Name	AK1 {ECO:0000255 HAMAP-Rule:MF_03171, ECO:0000312 HGNC:HGNC:361}
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 (By similarity) (PubMed: 21080915 , PubMed: 23416111 , PubMed: 2542324). 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}.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.