

Product Name: KD-Validated Adenylate Kinase 1 Mouse Monoclonal Antibody**Catalog #: KVA00811**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1 kappa
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 21.6kDa

Antigen Information

Gene Name	AK1
Alternative Names	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
Gene ID	203.0
SwissProt ID	P00568
Immunogen	Recombinant protein of human Adenylate Kinase 1

Background

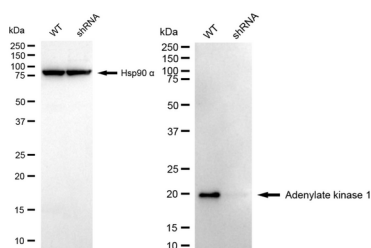
This gene encodes an adenylate kinase enzyme involved in energy metabolism and homeostasis of cellular adenine nucleotide

ratios in different intracellular compartments. This gene is highly expressed in skeletal muscle, brain and erythrocytes. Certain mutations in this gene resulting in a functionally inadequate enzyme are associated with a rare genetic disorder causing nonspherocytic hemolytic anemia. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. This gene shares readthrough transcripts with the upstream ST6GALNAC6 gene. [provided by RefSeq, Jan 2022]

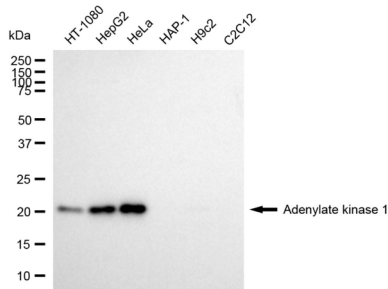
Research Area

Epigenetics and Nuclear Signaling, Biochemicals

Image Data



Western blotting analysis using adenylate kinase 1 antibody (KVA00811). Adenylate kinase 1 expression in wild-type (WT) and adenylate kinase 1 (AK1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with adenylate kinase 1 antibody (KVA00811, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using Adenylate kinase 1 antibody (KVA00811). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Adenylate kinase 1 antibody (KVA00811, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.