

AK2 Antibody
Rabbit mAb
Catalog # AP92946**Specification**

AK2 Antibody - Product Information

Application	WB, IHC, ICC, IP
Primary Accession	P54819
Reactivity	Rat
Clonality	Monoclonal
Other Names	
Adenylate kinase 2; ADK2; ak2;	

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	26478 Da

AK2 Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human AK2
Description	Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. This small ubiquitous enzyme involved in energy metabolism and nucleotide synthesis that is essential for maintenance and cell growth. Plays a key role in hematopoiesis.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

AK2 Antibody - Protein Information**Name** AK2 {ECO:0000255|HAMAP-Rule:MF_03168}**Synonyms** ADK2**Function**

Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism. Adenylate kinase activity is critical for regulation of the phosphate utilization and the AMP de novo

biosynthesis pathways. Plays a key role in hematopoiesis.

Cellular Location

Mitochondrion intermembrane space {ECO:0000255|HAMAP-Rule:MF_03168}

Tissue Location

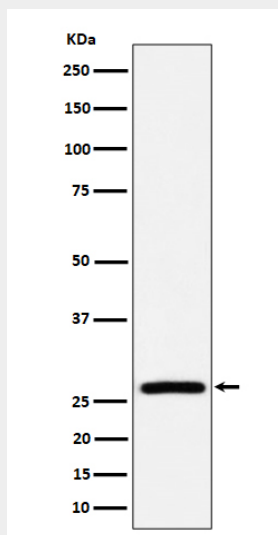
Present in most tissues. Present at high level in heart, liver and kidney, and at low level in brain, skeletal muscle and skin. Present in thrombocytes but not in erythrocytes, which lack mitochondria. Present in all nucleated cell populations from blood, while AK1 is mostly absent. In spleen and lymph nodes, mononuclear cells lack AK1, whereas AK2 is readily detectable. These results indicate that leukocytes may be susceptible to defects caused by the lack of AK2, as they do not express AK1 in sufficient amounts to compensate for the AK2 functional deficits (at protein level)

AK2 Antibody - 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](#)

AK2 Antibody - Images



Western blot analysis of AK2 expression in HepG2 cell lysate.