

**Anti-AK2 Rabbit Monoclonal Antibody**  
**Catalog # ABO16406****Specification****Anti-AK2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP
Primary Accession	<a href="#">P54819</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-AK2 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

**Anti-AK2 Rabbit Monoclonal Antibody - Additional Information****Gene ID 204****Other Names**

Adenylate kinase 2, mitochondrial {ECO:0000255|HAMAP-Rule:MF\_03168}, AK 2 {ECO:0000255|HAMAP-Rule:MF\_03168}, 2.7.4.3 {ECO:0000255|HAMAP-Rule:MF\_03168}, ATP-AMP transphosphorylase 2 {ECO:0000255|HAMAP-Rule:MF\_03168}, ATP:AMP phosphotransferase {ECO:0000255|HAMAP-Rule:MF\_03168}, Adenylate monophosphate kinase {ECO:0000255|HAMAP-Rule:MF\_03168}, Adenylate kinase 2, mitochondrial, N-terminally processed {ECO:0000255|HAMAP-Rule:MF\_03168}, AK2 {ECO:0000255|HAMAP-Rule:MF\_03168}, ADK2

**Calculated MW**

26 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human AK2

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## Anti-AK2 Rabbit Monoclonal 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

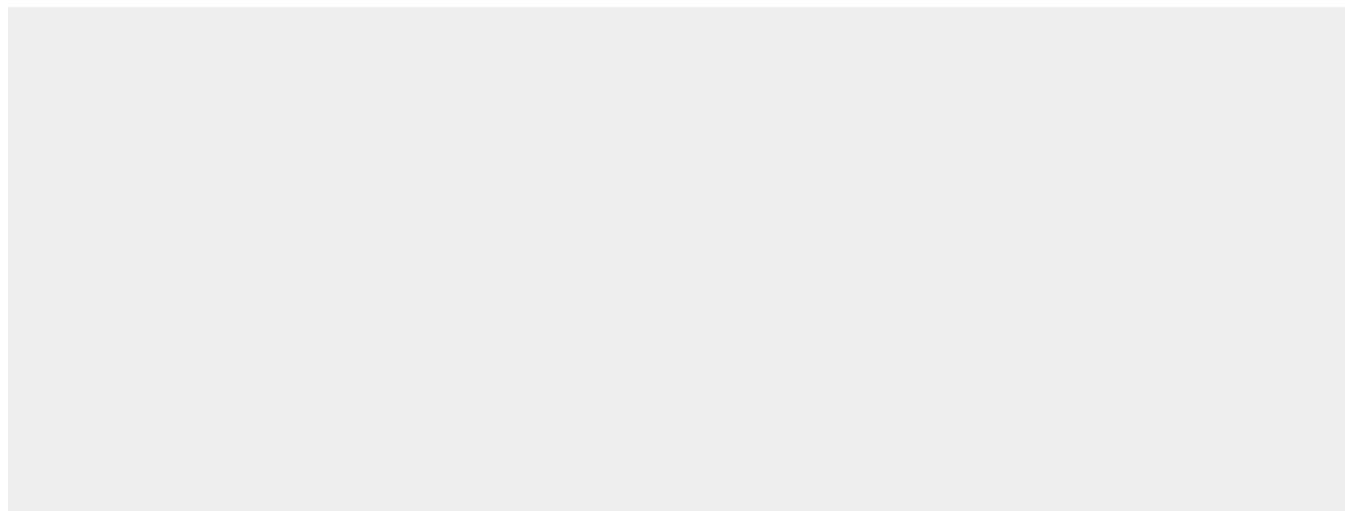
Present in most tissues. Present at high level in heart, liver and kidney, and at low level in brain, skeletal muscle and skin. Present in thrombocytes but not in erythrocytes, which lack mitochondria. Present in all nucleated cell populations from blood, while AK1 is mostly absent. In spleen and lymph 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)

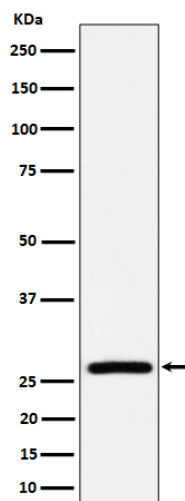
## Anti-AK2 Rabbit Monoclonal Antibody - Protocols

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](#)

## Anti-AK2 Rabbit Monoclonal Antibody - Images





Western blot analysis of AK2 expression in HepG2 cell lysate.