

# ADK Antibody

Rabbit mAb

Catalog # AP92587

## Product Information

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Application	WB
Primary Accession	<a href="#">P55263</a>
Reactivity	Rat, Human
Clonality	Monoclonal
Other Names	Adenosine kinase; adk; AK;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	40545

## Additional Information

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Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ADK
Description	ATP dependent phosphorylation of adenosine and other related nucleoside analogs to monophosphate derivatives. Serves as a potential regulator of concentrations of extracellular adenosine and intracellular adenine nucleotides.
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.

## Protein Information

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Name	ADK {ECO:0000303   PubMed:19635462, ECO:0000312   HGNC:HGNC:257}
Function	Adenosine kinase that mediates the phosphorylation of the purine nucleoside adenosine at the 5' position in an ATP-dependent manner: catalyzes phosphorylation of both unmodified and modified adenosines (PubMed: <a href="#">21963049</a> , PubMed: <a href="#">40840445</a> , PubMed: <a href="#">6246102</a> , PubMed: <a href="#">8577746</a> , PubMed: <a href="#">9070863</a> ). Plays a key role in the detoxification of modified adenosines containing N(6)-methylated adenine (m6A) post- transcriptional modification (PubMed: <a href="#">40840445</a> ). Modified nucleosides are derived from the degradation of RNAs (mRNAs, rRNAs and tRNAs) and possess intrinsic cytotoxicity and must be cleared to prevent metabolic dysfunction (PubMed: <a href="#">40840445</a> ). Catalyzes the phosphorylation of the free cytosolic methylated adenosine nucleotides N(6)-methyladenosine (m6A), N(6),N(6)-dimethyladenosine (m6,6A) and N(6)- isopentenyladenosine (i6A) into adenosine monophosphate (AMP) intermediates that are further detoxified by MAPDA/ADAL (PubMed: <a href="#">40840445</a> ).

**Cellular Location**

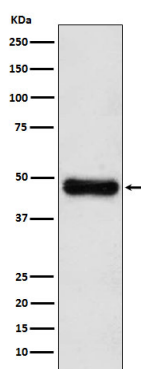
Cytoplasm, cytosol. [Isoform 2]: Cytoplasm

**Tissue Location**

Widely expressed. Highest level in placenta, liver, muscle and kidney.

**Images**

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Western blot analysis of ADK expression in HepG2 cell lysate.

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