

**Anti-ADK Picoband Antibody**  
**Catalog # ABO11649****Specification**

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**Anti-ADK Picoband Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">P55263</a> |
| Host              | Rabbit                 |
| Reactivity        | Human, Mouse, Rat      |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for Adenosine kinase(ADK) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-ADK Picoband Antibody - Additional Information**

**Gene ID** 132

**Other Names**

Adenosine kinase, AK, 2.7.1.20, Adenosine 5'-phosphotransferase, ADK

**Calculated MW**

40545 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat  
Western blot, 0.1-0.5 µg/ml, Human

**Subcellular Localization**

Isoform 1: Nucleus .

**Tissue Specificity**

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

**Protein Name**

Adenosine kinase

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E. coli-derived human ADK recombinant protein (Position: K165-T351). Human ADK shares 88.8% and 88.2% amino acid (aa) sequence identity with mouse and rat ADK, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-ADK Picoband Antibody - Protein Information**

**Name** ADK ([HGNC:257](#))

**Function**

Catalyzes the phosphorylation of the purine nucleoside adenosine at the 5' position in an ATP-dependent manner. Serves as a potential regulator of concentrations of extracellular adenosine and intracellular adenine nucleotides.

**Cellular Location**

[Isoform 1]: Nucleus

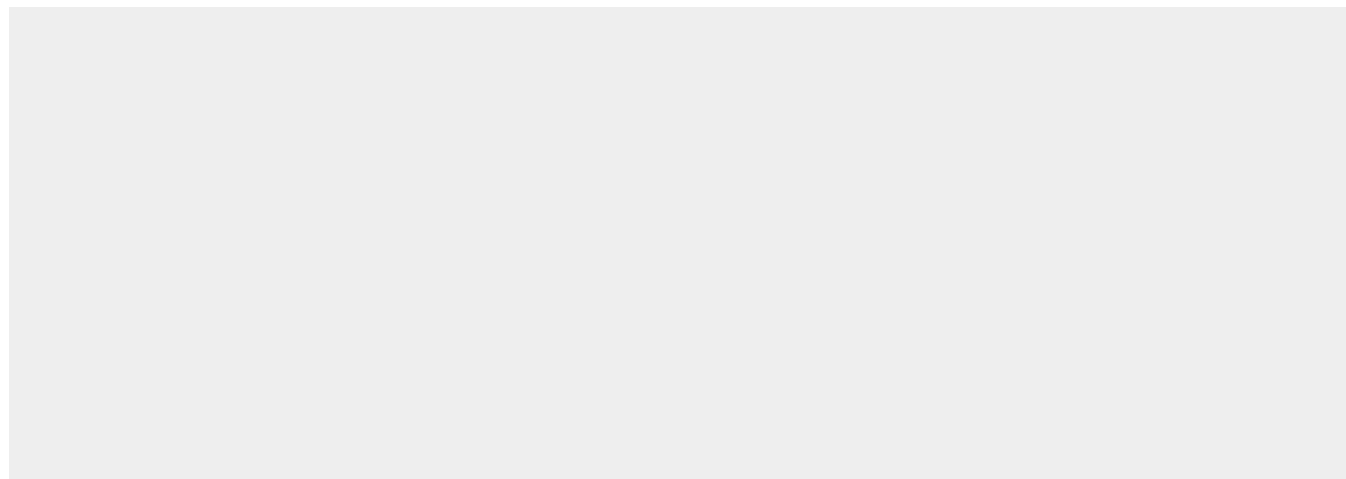
**Tissue Location**

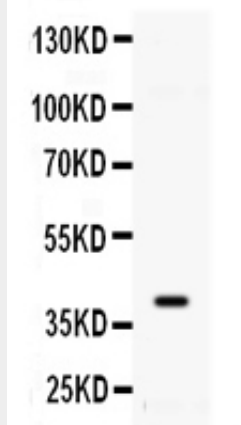
Widely expressed. Highest level in placenta, liver, muscle and kidney.

**Anti-ADK Picoband Antibody - Protocols**

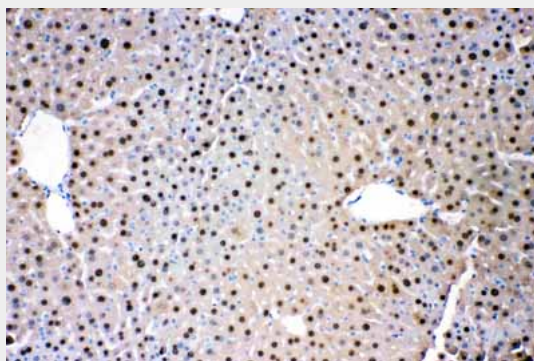
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

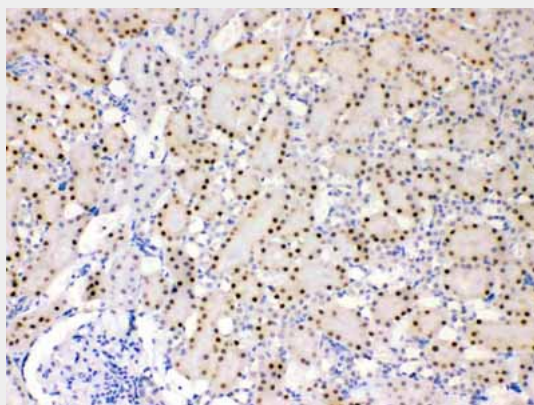
**Anti-ADK Picoband Antibody - Images**



Western blot analysis of ADK expression in MCF-7 whole cell lysates (lane 1). ADK at 40KD was detected using rabbit anti- ADK Antigen Affinity purified polyclonal antibody (Catalog # ABO11649) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .



ADK was detected in paraffin-embedded sections of mouse liver tissues using rabbit anti- ADK Antigen Affinity purified polyclonal antibody (Catalog # ABO11649) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



ADK was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- ADK Antigen Affinity purified polyclonal antibody (Catalog # ABO11649) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .

#### **Anti-ADK Picoband Antibody - Background**

This gene is an enzyme which catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important

pharmacological role in increasing intravascular adenosine concentrations and acting as anti-inflammatory agents. Multiple transcript variants encoding different isoforms have been found for this gene.