10320 Camino Santa Fe, Suite G
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Anti-ADK Picoband Antibody
Catalog # ABO11649

Specification

Anti-ADK Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P55263
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 Na2HPO4, 0.05mg NaN3.

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 r˚Constitution, 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 Cytomety
- Cell Culture

Anti-ADK Picoband Antibody - Images

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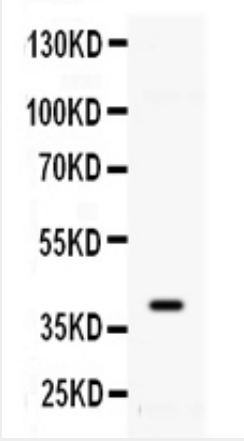
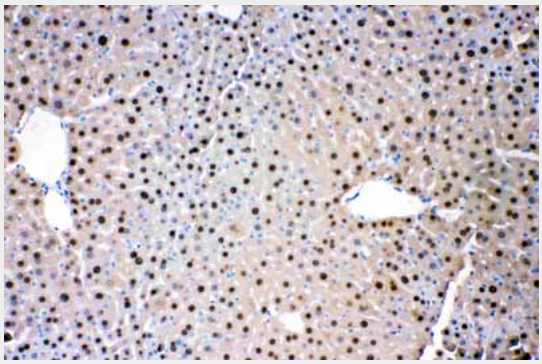
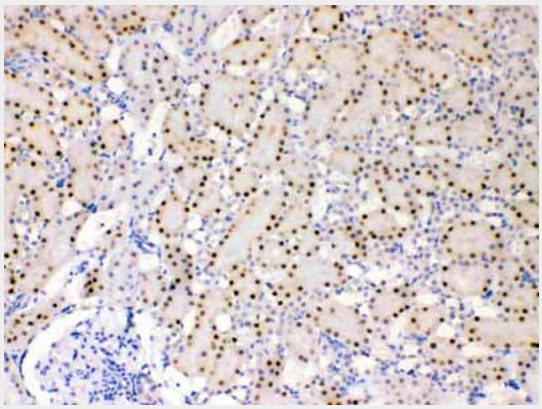


Western blot analysis of ADK expression in MCF-7 whole cell lysates (lane 1). ADK at 40KD was detected using rabbit anti- ADK Antigen Affinity purified polyclonal antibody (Catalog # ABO11649) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



ADK was detected in paraffin-embedded sections of mouse liver tissues using rabbit anti- ADK Antigen Affinity purified polyclonal antibody (Catalog # ABO11649) at 1 ??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 Î¼g/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.