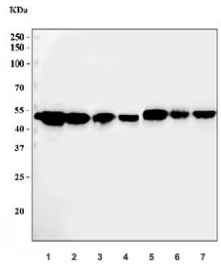
ADK Antibody / Adenosine kinase (R32499)

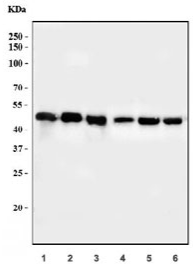
Catalog No.	Formulation	Size
R32499	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

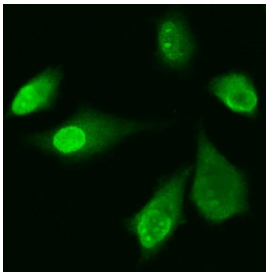
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P55263
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml
Limitations	This ADK antibody is available for research use only.



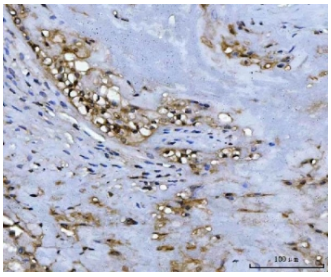
Western blot testing of 1) rat liver, 2) rat kidney, 3) rat stomach, 4) rat PC-12, 5) mouse kidney, 6) mouse stomach and 7) mouse NIH 3T3 cell lysate with ADK antibody. Expected molecular weight: 40-45 kDa.



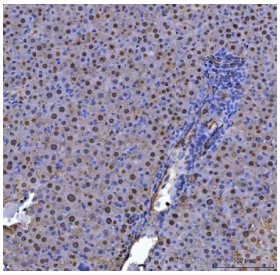
Western blot testing of human 1) placenta, 2) PC-3, 3) T-47D, 4) U937, 5) U-251 MG and 6) HepG2 cell lysate with ADK antibody. Expected molecular weight: 40-45 kDa.



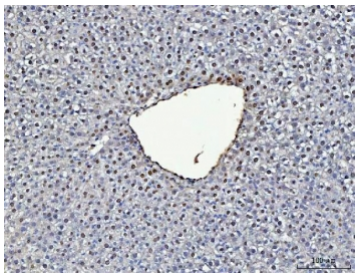
Immunofluorescent staining of FFPE human PC-3 cells with ADK antibody. HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human placenta tissue with ADK antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse liver tissue with ADK antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat liver tissue with ADK antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Adenosine kinase 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.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the ADK antibody to be titrated for optimal

performance.

Immunogen

Amino acids K165-T351 from the human protein were used as the immunogen for the ADK antibody.

Storage

After reconstitution, the ADK antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.