

# Adenosine Kinase Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 146 and 362 of Human Adenosine kinase
Form	Liquid
Concentration	0.28 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2544875

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

## Product Specific Information

Recommended positive controls: A431, HepG2, HeLa, mouse liver, rat liver.

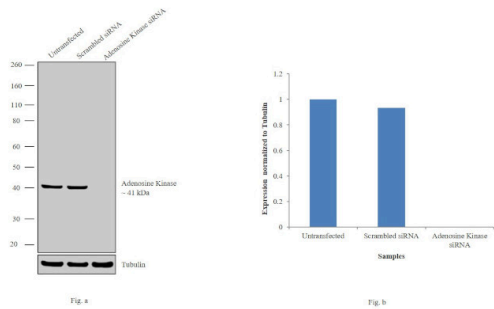
Predicted reactivity: Mouse (89%), Rat (87%), Chicken (83%), Rhesus Monkey (99%), Bovine (93%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For Adenosine Kinase Polyclonal Antibody

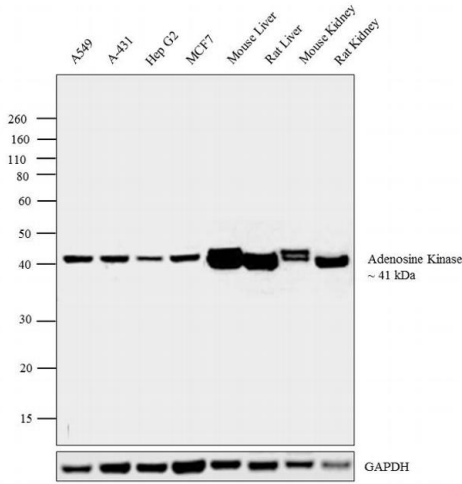
Adenosine Kinase Antibody (PA5-27399)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A431 cells were transfected with Adenosine Kinase siRNA and reduction of signal was observed in Western Blot using Adenosine Kinase Polyclonal Antibody (Product # PA5-27399). {KD}



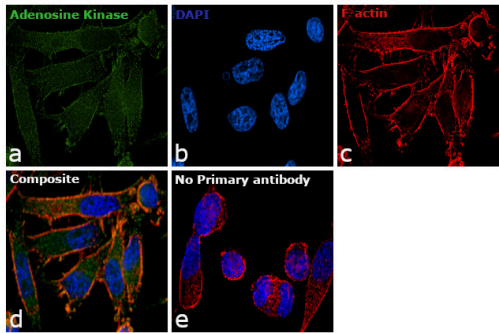
Adenosine Kinase Antibody (PA5-27399) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A549 (Lane 1), A-431 (Lane 2), Hep G2 (Lane 3), MCF7 (Lane 4), tissue extracts (30 µg lysate) of Mouse Liver (Lane 5), Rat Liver (Lane 6), Mouse Kidney (Lane 7) and Rat Kidney (Lane 8). The blot was probed with Anti-Adenosine Kinase Polyclonal Antibody (Product # PA5-27399, 1:1,000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4,000 dilution). A 56 kDa band corresponding to Adenosine Kinase was detected across the cell lines and tissues tested.



Adenosine Kinase Antibody (PA5-27399) in ICC/IF

Immunofluorescence analysis of Adenosine Kinase was performed using 70% confluent log phase PC-3 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Adenosine Kinase Polyclonal Antibody (Product # PA5-27399) at 5 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (4)

Cellular and molecular neurobiology	Year 2022
<b>Role of Adenosine Kinase in Sphingosine-1-Phosphate Receptor 1-Induced Mechano-Hypersensitivities.</b>	Species Rat
"PA5-27399 was used in Western Blot to show that SEW287-induced behavioral hypersensitivity is associated with increased expression of ADK in astrocytes of the dorsal horn of the spinal cord."	Dilution 1:1000
Authors: Lauro F,Giancotti LA,Kolar G,Harada CM,Harmon TA,Garrett TJ,Salvemini D	
International journal of molecular sciences	Year 2022
<b>Adenosine Kinase Isoforms in the Developing Rat Hippocampus after LiCl/Pilocarpine Status Epilepticus.</b>	Species Rat
"PA5-27399 was used in Western Blotting to elucidate the changes in ADK isoform expression after LiCl/pilocarpine SE and whether potential changes, as well as inhibition of ADK by 5-iodotubercidin (5-ITU), may contribute to changes in hippocampal excitability during brain development."	Dilution 1:3000
Authors: Fábera P,Uttl L,Kubová H,Tsenov G,Mareš P	

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