

CDK4 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Bovine, Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 148 and 303 of Human CDK4
Form	Liquid
Concentration	0.82 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 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_2545303

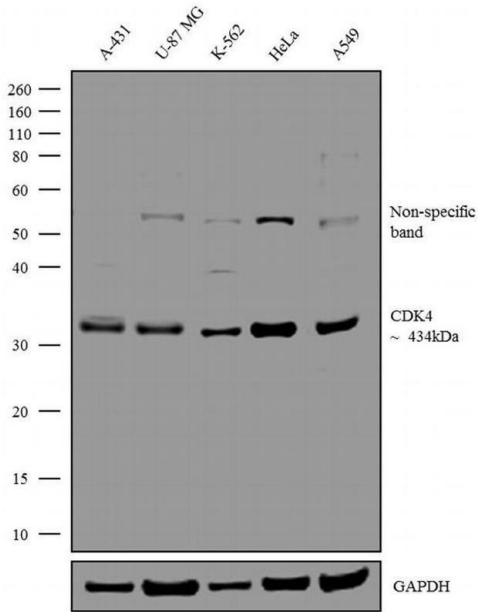
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2, NIH-3T3, PC-12.

Predicted reactivity: Mouse (95%), Rat (94%), Pig (98%), Sheep (96%), Rhesus Monkey (100%), Bovine (96%).

Product Images For CDK4 Polyclonal Antibody

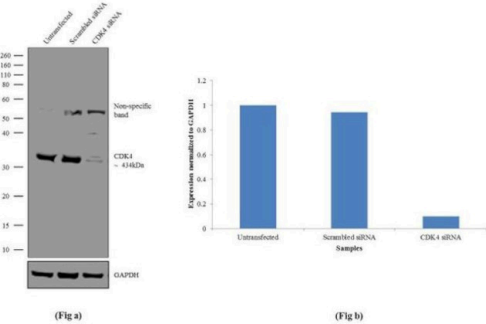


CDK4 Antibody (PA5-27827) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A-431 (Lane 1), U-87 MG (Lane 2), K-562 (Lane 3), HeLa (Lane 4) and A549 (Lane 5). The blot was probed with Anti-CDK4 Polyclonal Antibody (Product # PA5-27827, 1:500 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A ~35 kDa band corresponding to CDK4 was observed across the cell lines tested. A non-specific band was also observed at around 55 kDa.

CDK4 Antibody (PA5-27827)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A-431 cells were transfected with CDK4 siRNA and loss of signal was observed in Western Blot using Anti-CDK4 Polyclonal Antibody (Product # PA5-27827). {KD}



CDK4 Antibody (PA5-27827) in ICC/IF

Immunofluorescence analysis of CDK4 was performed using 70% confluent log phase HeLa 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 CDK4 Rabbit Polyclonal Antibody(Product # PA5-27827) 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 SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). 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 (1)

<p>Oncology letters</p> <p>Effects of lncRNA ANRIL-knockdown on the proliferation, apoptosis and cell cycle of gastric cancer cells.</p> <p>"PA5-27827 was used in Western Blotting to construct drug-resistant gastric cancer cell lines using the stepwise continuous selection method."</p> <p>Authors: Hu X,Lou T,Yuan C,Wang Y,Tu X,Wang Y,Zhang T</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:1,000</p>
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Immunohistochemistry (1)

<p>Life science alliance</p> <p>DNA damage in embryonic neural stem cell determines FTLDs' fate via early-stage neuronal necrosis.</p> <p>"PA5-27827 was used in Immunohistochemistry-immunofluorescence to study developmental stress followed by early-stage neuronal necrosis is a potential target for therapeutics and one of the earliest general biomarkers for FTLTLD."</p> <p>Authors: Homma H,Tanaka H,Jin M,Jin X,Huang Y,Yoshioka Y,Bertens CJ,Tsumaki K,Kondo K,Shiwaku H,Tagawa K,Akatsu H,Atsuta N,Katsuno M,Furukawa K,Ishiki A,Waragai M,Ohtomo G,Iwata A,Yokota T,Inoue H,Arai H,Sobue G,Sone M,Fujita K,Okazawa H</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>
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