

CDK5 Monoclonal Antibody (DC34)

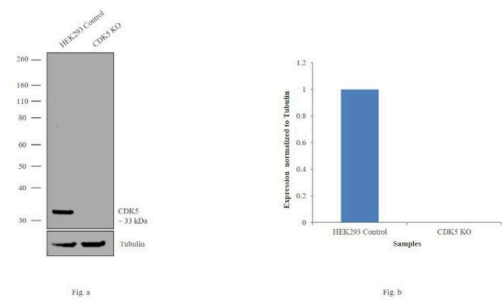
Product Details	
Size	500 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Non-human primate, Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	DC34
Conjugate	Unconjugated
Immunogen	Recombinant cdk5 protein.
Form	Liquid
Concentration	0.2 mg/mL
Storage conditions	4° C
RRID	AB_2536380

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	8 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	5 µg/mL	2 Publications
Immunoprecipitation (IP)	Assay-Dependent	1 Publication

Product Specific Information

Suggested positive controls include HT29, MAD109, PC12 cells and brain tissue.

Product Images For CDK5 Monoclonal Antibody (DC34)

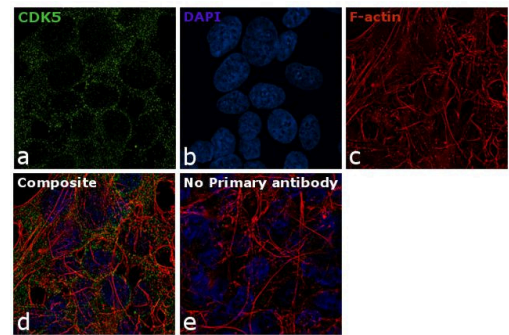


CDK5 Antibody (AHZ0492)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in CDK5 knockout (KO) cell line compared to control cell line using anti-CDK5 beta Monoclonal Antibody (DC34) (Product # AHZ0492). {KO}

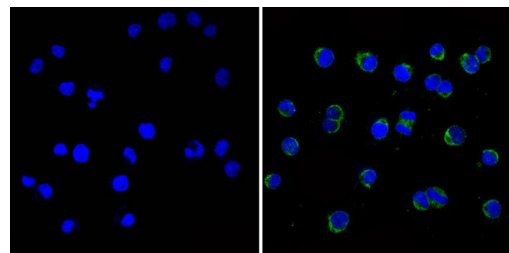
CDK5 Antibody (AHZ0492) in ICC/IF

Immunofluorescence analysis of CDK5 was performed using 70% confluent log phase SH-SY5Y 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 CDK5 Monoclonal Antibody (DC34) (Product # AHZ0492) at 5 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) 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) (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.



CDK5 Antibody (AHZ0492) in ICC/IF

Immunofluorescent analysis of Cdk5 (green) showing staining in the cytoplasm of Jurkat cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Cdk5 monoclonal antibody (Product # AHZ0492) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



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Western Blot (8)

<p>The Journal of clinical investigation</p> <p>Cyclin G1 induces maladaptive proximal tubule cell dedifferentiation and renal fibrosis through CDK5 activation.</p> <p>"AHZ0492 was used in Western Blotting to demonstrate that global deletion of CG1 inhibits G2/M arrest and fibrosis."</p> <p>Authors: Taguchi K,Elias BC,Sugahara S,Sant S,Freedman BS,Waikaar SS,Pozzi A,Zent R,Harris RC,Parikh SM,Brooks CR</p>	<p>Year 2022</p> <p>Species Mouse</p>
<p>Frontiers in synaptic neuroscience</p> <p>Cyfp1 Regulates SynGAP1 at Hippocampal Synapses.</p> <p>"Published figure using CDK5 monoclonal antibody (Product # AHZ0492) in Western Blot"</p> <p>Authors: Sahasrabudhe A,Begum F,Guevara CA,Morrison C,Hsiao K,Kezunovic N,Bozdagi-Gunal O,Benson DL</p>	<p>Year 2021</p>

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Immunohistochemistry (1)

<p>The Journal of clinical investigation</p> <p>Cyclin G1 induces maladaptive proximal tubule cell dedifferentiation and renal fibrosis through CDK5 activation.</p> <p>"AHZ0492 was used in Western Blotting to demonstrate that global deletion of CG1 inhibits G2/M arrest and fibrosis."</p> <p>Authors: Taguchi K,Elias BC,Sugahara S,Sant S,Freedman BS,Waikaar SS,Pozzi A,Zent R,Harris RC,Parikh SM,Brooks CR</p>	<p>Year 2022</p> <p>Species Mouse</p>
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Immunohistochemistry (Paraffin) (1)

<p>British journal of cancer</p> <p>Inhibition of Cdk5 induces cell death of tumor-initiating cells.</p> <p>"Published figure using CDK5 monoclonal antibody (Product # AHZ0492) in Western Blot"</p> <p>Authors: Mandl MM,Zhang S,Ulrich M,Schmoeckel E,Mayr D,Vollmar AM,Liebl J</p>	<p>Year 2017</p> <p>Species Human</p>
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More applications with references on thermofisher.cn

- ICC/IF (2)
- IP (1)

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