

CDK5 Monoclonal Antibody (4E4)

Product Details	
Size	100 µL
Species	Human, Mouse, Non-human primate, Rat
Expression System	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	4E4
Conjugate	Unconjugated
Immunogen	Purified recombinant fragment of human CDK5 expressed in E. Coli.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.03% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2538525

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1:200 - 1:400	-
Immunocytochemistry (ICC)	1:100	-
Immunofluorescence (IF)	1:100	-
Immunohistochemistry (IHC)	1:200 - 1:1000	-
Western Blot (WB)	1:500 - 1:2000	-

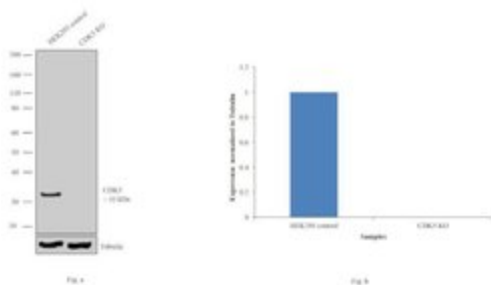
Product Specific Information

MA5-17053 targets CDK5 in FACS, ICC, IHC, IF and WB applications and shows reactivity with Human, Non-human primate, and Rat samples.

The MA5-17053 immunogen is purified recombinant fragment of human CDK5 expressed in E. Coli.

MA5-17053 detects CDK5 which has a predicted molecular weight of approximately 35kDa.

Advanced Verification Data



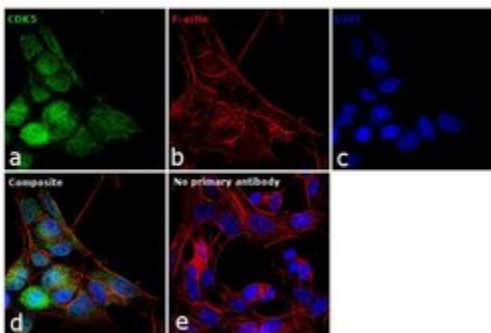
CDK5 Antibody (MA5-17053)

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 CDK5 Monoclonal Antibody (4E4) (Product #MA5-17053). Knockout validation info.

Product Images For CDK5 Monoclonal Antibody (4E4)

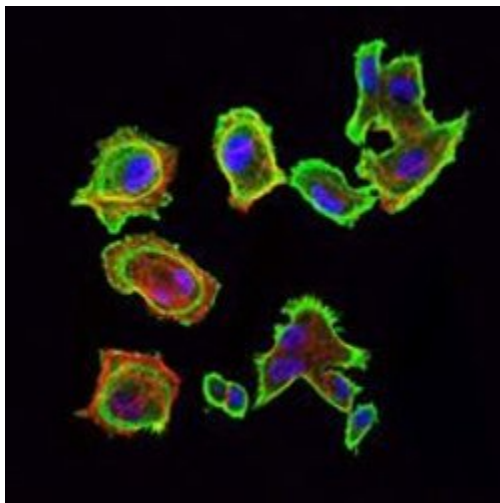
CDK5 Antibody (MA5-17053) in IF

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 (4E4) (Product # MA5-17053) at 1:100 dilution 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) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image showing predominant nuclear localization. The images were captured at 60X magnification.



CDK5 Antibody (MA5-17053) in IF

Immunofluorescence analysis of GC7901 cells using CDK5 monoclonal antibody (Product # MA5-17053) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: actin filaments have been labeled with phalloidin.



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