Nuclear Matrix Protein p84 Monoclonal Antibody (5E10)

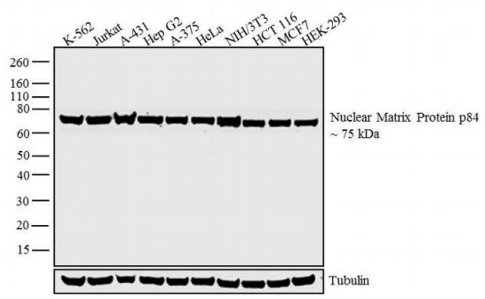
Product Details	
Size	100 µL
Species Reactivity	Hamster, Human, Mouse, Non-human primate, Rat
Published Species	Human
Host/Isotype	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	5E10
Conjugate	Unconjugated
Immunogen	Amino acids 15-374 of human p84 expressed in E. coli.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2202240

Applications	Tested Dilution	Publications
Western Blot (WB)	0.3-2 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	0.5-2 µg/mL	-
Immunoprecipitation (IP)	1:100-1:500	-
ChIP assay (ChIP)	Assay-dependent	-

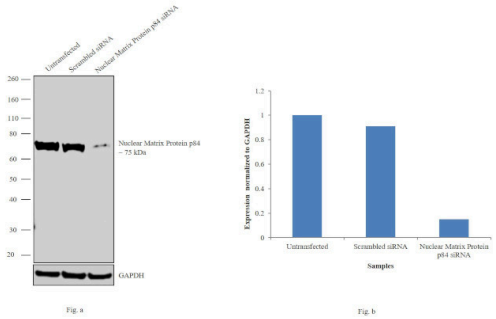
Product Specific Information

Suggested positive controls are HeLa, Raji, and MOLT4.

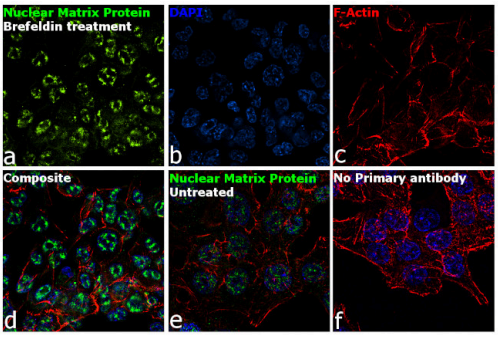
Product Images For Nuclear Matrix Protein p84 Monoclonal Antibody (5E10)



Nuclear Matrix Protein p84 Antibody (MA1-23261) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of K-562 (Lane 1), Jurkat (Lane 2), A-431 (Lane 3), Hep G2 (Lane 4), A-375 (Lane 5), HeLa (Lane 6), NIH/3T3 (Lane 7), HCT 116 (Lane 8), MCF7 (Lane 9) and HEK-293 (Lane 10). The blot was probed with Anti-Nuclear Matrix Protein p84 Monoclonal Antibody (Product # MA1-23261, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/ml, 1:4000 dilution). A 75 kDa band corresponding to Nuclear Matrix Protein p84 was observed across the cell lines tested.



Nuclear Matrix Protein p84 Antibody (MA1-23261)
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HEK293 cells were transfected with Nuclear Matrix Protein p84 siRNA and reduction of signal was observed in Western Blot using Nuclear Matrix Protein p84 Monoclonal Antibody (5E10) (Product # MA1-23261). {KD}



Nuclear Matrix Protein p84 Antibody (MA1-23261) in ICC/IF
Immunofluorescence analysis of Nuclear Matrix Protein p84 was performed using 70% confluent log phase HCT 116 cells treated with 0.5 µg of Brefeldin for 24 hours. 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 Nuclear Matrix Protein p84 Mouse Monoclonal Antibody (Product # MA1-23261) 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) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Nuclear localization. Panel e shows untreated cells with less Nuclear signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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1 Reference

Western Blot (1)

International journal of molecular medicine

Dihydroartemisinin inhibits the viability of cervical cancer cells by upregulating caveolin 1 and mitochondrial carrier homolog 2: Involvement of p53 activation and NAD(P)H:quinone oxidoreductase 1 downregulation.

"MA1-23261 was used in Western Blotting to identify Cav1 and MTCH2 as the molecular targets of DHA and revealed a new link between the upstream Cav1/MTCH2 upregulation and the downstream activation of the cell death pathway involved in the DHA-mediated inhibition of cell viability."

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Year
2017

Species
Human

Dilution
1:1000