

NUP107 Monoclonal Antibody (39C7)

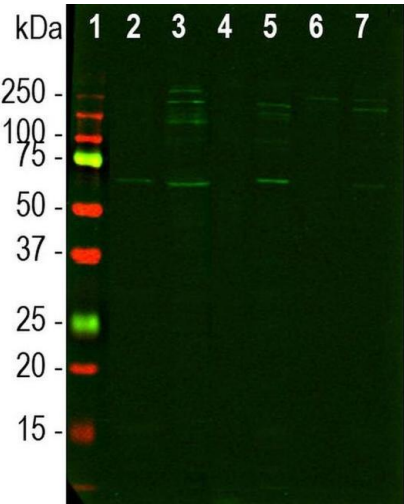
Product Details	
Size	500 µL
Species Reactivity	Bovine, Chicken, Fruit fly, Horse, Human, Mouse, Pig, Rat, Yeast
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	39C7
Conjugate	Unconjugated
Immunogen	Yeast nuclear preparation.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	tissue culture supernatant
Contains	5mM sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2154446

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100	-
Immunocytochemistry (ICC/IF)	1:100-1:500	3 Publications

Product Specific Information

For immunofluorescence on yeast cells, try MCA-39C7 diluted 1:100 to 1:500. For immunofluorescence on mammalian cells try at 1:50 to 1:100.

Product Images For NUP107 Monoclonal Antibody (39C7)



NUP107 Antibody (MA1-10031) in WB

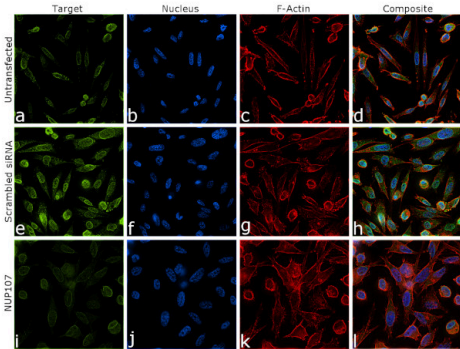
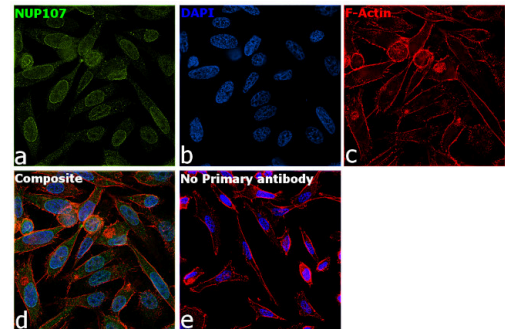
Western blot analysis of NUP107 in different cell lysates using an NUP107 monoclonal antibody (Product # MA1-10031) at a dilution of 1:100 seen in green. 1) protein standard (red), 2) HEK293 cytosol, 3) HEK293 nuclear, 4) NIH-3T3 cytosol, 5) NIH-3T3 nuclear, 6) HeLa cytosol, and 7) HeLa nuclear fraction lysate. The band observed at 68 kDa represents the target NUP107 protein.

NUP107 Antibody (MA1-10031) in ICC/IF

Immunofluorescence analysis of NUP107 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 10 minutes, and blocked with 2% BSA for 10 minutes at room temperature. The cells were labeled with NUP107 Monoclonal Antibody (39C7) (Product # MA1-10031) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723, 1:2000 dilution) 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 nuclear membrane localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

NUP107 Antibody (MA1-10031) in ICC/IF

Knockdown of NUP107 was achieved by transfecting PC-3 cells with NUP107 specific siRNA (Silencer® select Product # s32728, s32727). Immunofluorescence analysis was performed on untransfected PC-3 cells (panel a,d), transfected with non-specific scrambled siRNA (panels b,e) and transfected with NUP107 specific siRNA (panel c,f). Cells were fixed, permeabilized, and labelled with NUP107 Monoclonal Antibody (39C7) (Product # MA1-10031), (1: 100 dilution) followed by Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723, 1:2000 dilution). Nuclei (blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938), and Rhodamine Phalloidin (Product # R415, 1:300) was used for cytoskeletal F-actin (Red) staining. Partial reduction of specific signal was observed upon siRNA mediated knockdown (panel c,f) confirming specificity of the antibody to NUP107 (Green). The Images were captured at 60X magnification.



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Immunocytochemistry (3)

Scientific reports

Stimulated emission depletion microscopy with a single depletion laser using five fluorochromes and fluorescence lifetime phasor separation.

"MA1-10031 was used in Immunocytochemistry-immunofluorescence to provide evidence that eight color FLIM-STED with a single depletion laser would be possible if suitable fluorochromes were identified and we confirm that a fluorochrome may have different lifetimes depending on the molecules to which it is coupled."

Authors: Gonzalez Pisfil M, Nadelson I, Bergner B, Rottmeier S, Thomae AW, Dietzel S

Year
2022

Species
Human

Dilution
1:100

Cells

Nuclear Pore Complexes Cluster in Dysmorphic Nuclei of Normal and Progeria Cells during Replicative Senescence.

"Published figure using NUP107 monoclonal antibody (Product # MA1-10031) in Immunocytochemistry"

Authors: Röhl JM, Arnold R, Djabali K

Year
2021

[View more ICC/IF references on thermofisher.com](#)

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