

Product Datasheet

Lamin A + C Antibody (4C4) - BSA Free NBP2-25151

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-25151

Lamin A + C Antibody (4C4) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4C4
Preservative	0.035% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	74/65 kDa

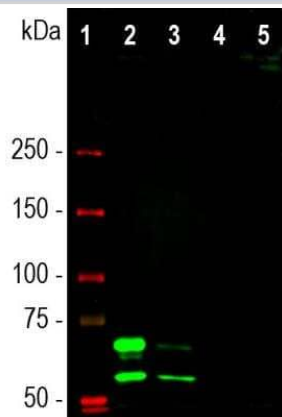
Product Description	
Host	Mouse
Gene ID	4000
Gene Symbol	LMNA
Species	Human, Mouse, Rat, Monkey
Reactivity Notes	Monkey and Mouse reactivity reported in scientific literature (PMID:31871052).
Marker	Nuclear Envelope Marker
Immunogen	Full length recombinant human lamin A expressed in and purified from E. coli. [UniProt# P02545]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000-1:2000, Immunocytochemistry/ Immunofluorescence 1:1000
Application Notes	This Lamin A + C (4C4) antibody is useful for Immunocytochemistry/Immunofluorescence and Western Blot, where bands can be seen at ~74 kDa (Lamin A) and ~65 kDa (Lamin C).

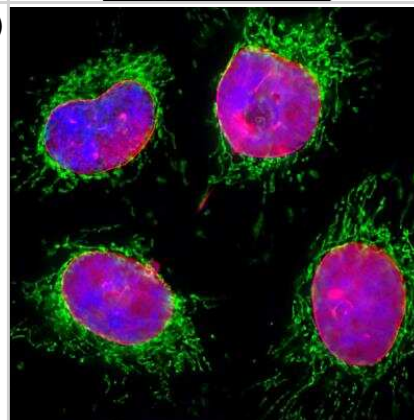


Images

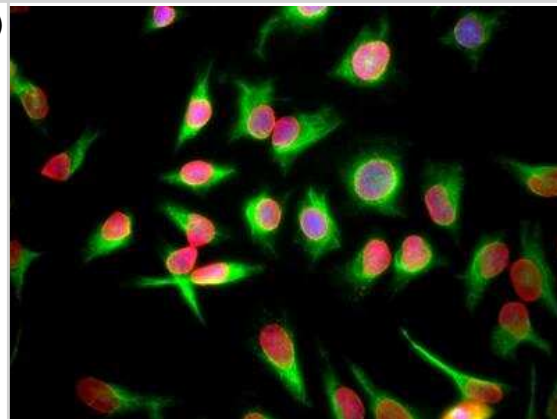
Western Blot: Lamin A + C Antibody (4C4) [NBP2-25151] - Analysis of different cell lysates using mouse mAb to lamin A/C, NBP2-25151, dilution 1:1,000 in green: [1] protein standard (red), [2] HeLa, [3] HEK293 [4] C6, and [5] NIH-3T3 cell lysates. Two strong bands at 74 and 65kDa correspond to the lamin A and lamin C proteins respectively, detected only in the cells of human origin. NBP2-25151 antibody failed to recognize rat or mouse proteins.



Immunocytochemistry/Immunofluorescence: Lamin A + C Antibody (4C4) [NBP2-25151] - Analysis of HeLa cells stained with mouse mAb to lamin A/C, NBP2-25151, dilution 1:2,000 in red, and costained with rabbit pAb to HSP60, dilution 1:5,000, in green. The blue is Hoechst staining of nuclear DNA. NBP2-25151 antibody specifically labels the nuclear lamina, while the HSP60 antibody reveals protein expressed in mitochondria.



Immunocytochemistry/Immunofluorescence: Lamin A + C Antibody (4C4) [NBP2-25151] - HeLa cells staining with NBP2-25151 (red), and counterstained with chicken polyclonal antibody to Vimentin NB300-223 (green) and DNA (blue). NBP2-25151 reveals strong nuclear lamina staining, while the Vimentin antibody reveals cytoplasmic intermediate filaments.



Publications

Gonzalez-Garrido A, Rosas-Madrigo S, Rojo-Dominguez A et al. Leukocyte Nuclear Morphology Alterations in Dilated Cardiomyopathy Caused by a Lamin AC Truncating Mutation (LMNA/Ser431*) Are Modified by the Presence of a LAP2 Missense Polymorphism (TMPO/Arg690Cys) International journal of molecular sciences 2022-11-07 [PMID: 36362411] (WB, Human)

Casado-Medrano V, Barrio-Real L, Gutierrez-Miranda L Identification of a truncated beta 1-chimaerin variant that inactivates nuclear Rac1 J. Biol. Chem. 2019-12-22 [PMID: 31871052] (WB, Monkey, Mouse)



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Products Related to NBP2-25151

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00004000-P01-2ug	Recombinant Human Lamin A + C GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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