

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	5mM Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	74/65 kDa

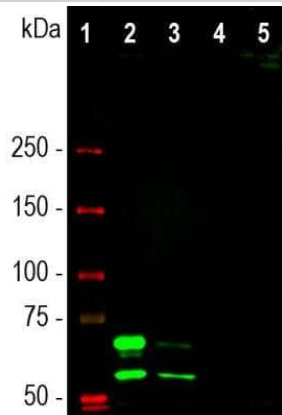
Product Description	
Description	Novus Biologicals Mouse Lamin A + C Antibody (4C4) - BSA Free (NBP2-25151) is a monoclonal antibody validated for use in WB and ICC/IF. Anti-Lamin A + C Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene 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).

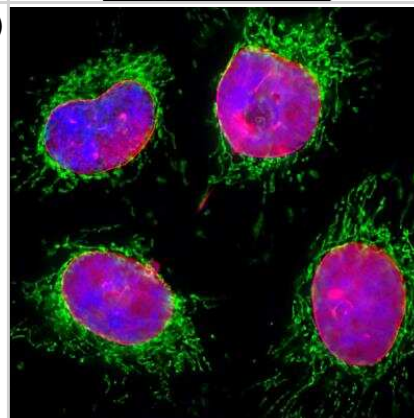


Images

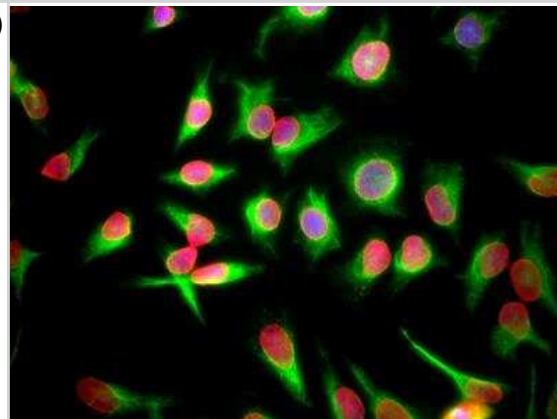
Western Blot: Lamin A + C Antibody (4C4) [NBP2-25151] - Analysis of different cell lysates using mouse mAb to lamin A/C, NBP2-25151, dilution 1:1,000 in green: [1] protein standard (red), [2] HeLa, [3] HEK293 [4] C6, and [5] NIH-3T3 cell lysates. Two strong bands at 74 and 65kDa correspond to the lamin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



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-25151

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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