

Lamin B1 Recombinant Polyclonal Antibody (10HCLC)

Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	10HCLC
Conjugate	Unconjugated
Immunogen	Peptides corresponding to human Lamin B1 [1) aa62-aa79 2) aa450-aa467]
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2784606

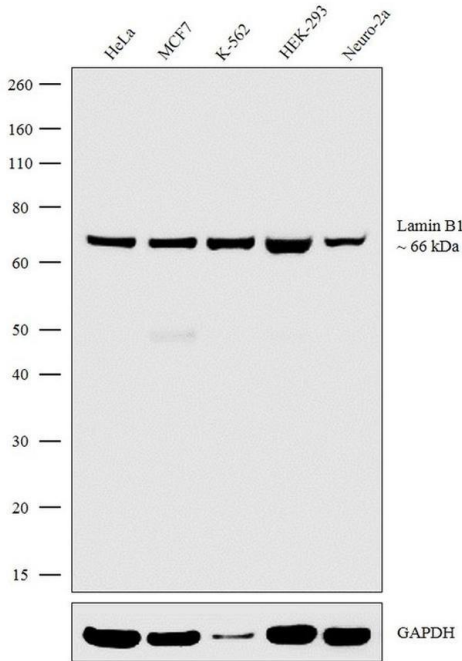
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	-
Immunocytochemistry (ICC/IF)	1:100	-
ChIP assay (ChIP)	2 µg/million cells	-

Product Specific Information

This antibody is predicted to react with Monkey, Sheep, Bovine, Pig.

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For Lamin B1 Recombinant Polyclonal Antibody (10HCLC)

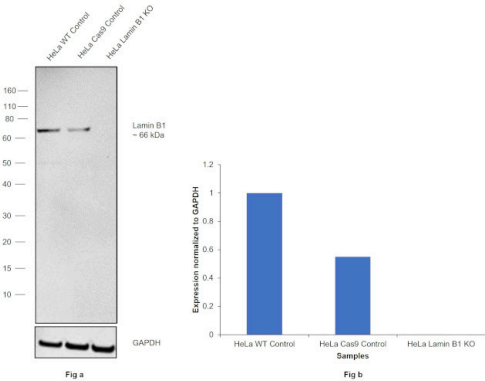


Lamin B1 Antibody (712007) in WB

Western blot analysis was performed on modified whole cell extracts (1% SDS) (30 µg lysate) of HeLa (Lane 1), MCF7 (Lane 2), K-562 (Lane 3), HEK-293 (Lane 4) and Neuro-2a (Lane 5). The blot was probed with Anti-Lamin B1 Recombinant Rabbit Polyclonal Antibody (Product # 712007, 1:500 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 1:4000 dilution). A ~66 kDa band corresponding to Lamin B1 was observed across the cell lines tested.

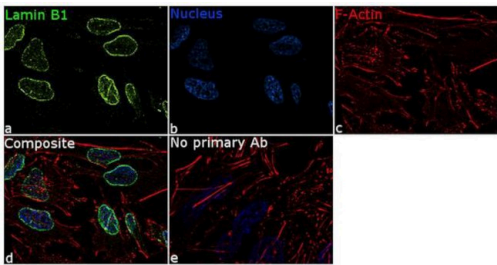
Lamin B1 Antibody (712007)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in Lamin B1 KO cell line compared to control cell line using Anti-Lamin B1 Recombinant Polyclonal Antibody (10HCLC) (Product # 712007). {KO}



Lamin B1 Antibody (712007) in ICC/IF

For immunofluorescence analysis, HeLa cells were fixed and permeabilized for detection of endogenous Lamin B1 using Anti-Lamin B1 Recombinant Rabbit Polyclonal Antibody (Product # 712007, 1:100 dilution) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of Lamin B1 protein (green), Panel b) is stained for nuclei (blue) using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). Panel c) represents cytoskeletal F-actin staining using Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating nuclear membrane localization of Lamin B1. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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