

ARG40694 anti-Lamin B1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Lamin B1
Tested Reactivity	Hu, Rat
Predict Reactivity	Hm
Tested Application	ICC/IF, IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Lamin B1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 570-586 of Human Lamin B1. (FHQQGTPRASNRSCAIM)
Conjugation	Un-conjugated
Alternate Names	LMN2; ADLD; Lamin-B1; LMN; LMNB

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:1000
	IHC-Fr	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

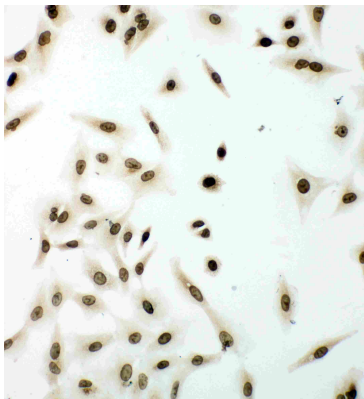
before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

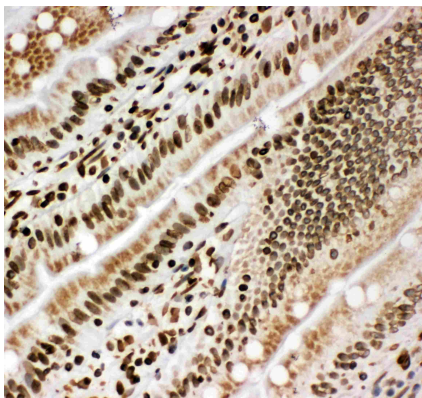
Gene Symbol	LMNB1
Gene Full Name	lamin B1
Background	The nuclear lamina consists of a two-dimensional matrix of proteins located next to the inner nuclear membrane. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability, chromatin structure and gene expression. Vertebrate lamins consist of two types, A and B. This gene encodes one of the two B type proteins, B1. Alternative splicing results in transcript variants and a duplication of this gene is associated with autosomal dominant adult-onset leukodystrophy (ADLD). [provided by RefSeq, Oct 2010]
Function	Lamins are components of the nuclear lamina, a fibrous layer on the nucleoplasmic side of the inner nuclear membrane, which is thought to provide a framework for the nuclear envelope and may also interact with chromatin. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Controls and Markers antibody; Signaling Transduction antibody; NRF-2 Nuclear Localization Study antibody
Calculated Mw	66 kDa
PTM	B-type lamins undergo a series of modifications, such as farnesylation and phosphorylation. Increased phosphorylation of the lamins occurs before envelope disintegration and probably plays a role in regulating lamin associations. [UniProt]
Cellular Localization	Nucleus inner membrane; Lipid-anchor; Nucleoplasmic side. [UniProt]

Images



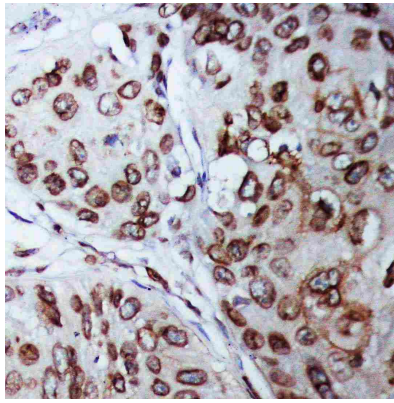
ARG40694 anti-Lamin B1 antibody ICC image

Immunocytochemistry: A549 cells stained with ARG40694 anti-Lamin B1 antibody.



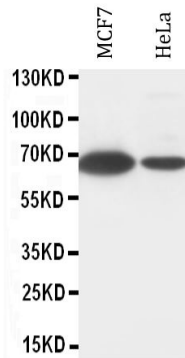
ARG40694 anti-Lamin B1 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat intestine tissue stained with ARG40694 anti-Lamin B1 antibody.



ARG40694 anti-Lamin B1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue stained with ARG40694 anti-Lamin B1 antibody.



ARG40694 anti-Lamin B1 antibody WB image

Western blot: MCF7 and HeLa cell lysates stained with ARG40694 anti-Lamin B1 antibody.