



## Lamin A Antibody

CATALOG NUMBER: 48-519

### Specifications

<b>SPECIES REACTIVITY:</b>	Dog, Gibbon, Gorilla, Hamster, Horse, Human, Monkey, Mouse, Pig, Rabbit, Rat
<b>TESTED APPLICATIONS:</b>	IHC, WB
<b>APPLICATIONS:</b>	Lamin A antibody can be used in ELISA, Western Blot starting at 1:500 - 1:2000, and immunohistochemistry starting at 2.5 ug/mL.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>SPECIFICITY:</b>	Because of immunogen's 100% homology with Isoforms 1, 4, 5, 6, ADelta10 and C of Prelamin-A/C, this is expected to detect multiple bands in WB.
<b>IMMUNOGEN:</b>	A synthetic peptide corresponding to amino acids 249-265 C-RAQHEDQVEQYKKELEK of Human Lamin A/C. Percent identity by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Dog, Horse, Rabbit, Pig (100%); Bovin ...
<b>HOST SPECIES:</b>	Rabbit

### Properties

<b>PURIFICATION:</b>	Antiserum
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	PBS containing 0.05% BSA and 0.05% sodium azide
<b>STORAGE CONDITIONS:</b>	Lamin A antibody should be stored long term (months) at -80 °C and short term (days) at 4 °C. As with all antibodies avoid freeze/thaw cycles.
<b>CLONALITY:</b>	Polyclonal
<b>ISOTYPE:</b>	IgG
<b>CONJUGATE:</b>	Unconjugated

### Additional Info

<b>ALTERNATE NAMES:</b>	LMNA, 70 kDa lamin, CDCD1, CMD1A, EMD2, FPLD, IDC, FPL, FPLD2, Lamin A/C, Lamin, LFP, LMNC, LMN1, LMNL1, HGPS, Prelamin-A/C, PRO1, Lamin A, Lamin A/C-like 1, LGMD1B, CDDC, CMT2B1, LDP1
<b>ACCESSION NO.:</b>	P02545
<b>PROTEIN GI NO.:</b>	125962
<b>OFFICIAL SYMBOL:</b>	LMNA
<b>GENE ID:</b>	4000

### Background

<b>BACKGROUND:</b>	Lamin A and lamin C are alternative splicing products of the lamin A/C gene that is responsible for autosomal dominant Emery-Dreifuss muscular dystrophy (AD-EDMD). Aberrant expression patterns of nuclear lamins have been described in various types of cancer depending on the subtype of cancer, its aggressiveness, proliferative capacity and degree of differentiation. In general, the expression of A-type lamins (lamins A and C) has been correlated with a non-proliferating, differentiated state of cells and tissues. Lamins A and C, the products of the LMNA gene, are nuclear intermediate filament proteins and are the major structural components of the lamina network that underlies and supports the nuclear envelope.
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