

Chicken Lamin A/C Polyclonal Antibody | anti-LaminA/C antibody

Lamin A/C

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76712	Chicken	Human, Mouse, Rat, Primate, Dog, Equine	Immunofluorescence, Western Blot, Immunocytochemistry

PRODUCT SYNONYMS

Lamin A/C; Polyclonal Antibody; anti-LaminA/C antibody

PRODUCT SPECIFICATIONS

Host	Chicken
Reactivity	Human, Mouse, Rat, Primate, Dog, Equine
Clonality	Polyclonal
Isotype	Chicken IgY
Form/Format	Liquid. Supplied as an aliquot of concentrated IgY preparation plus 5mM NaN3
Applicable Applications for anti-LaminA/C antibody	IF (Immunofluorescence), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Full length recombinant human lamin A protein expressed in and purified from E coli.
Preparation and Storage	The antibody can be stored at 2 degree - 8 degree C for 12 months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of cytosolic or nuclear enriched fractions of cell lines probed with chicken pAb to lamin A/C, AAA76712, dilution 1:1,000 in green: [1] protein standard (red), [2] HeLa cytosol, [3] HeLa nuclear, [4] NIH-3T3 cytosol, and [5] NIH-3T3 nuclear fractions. Two strong bands at 65kDa and 74kDa correspond to lamin A and lamin C proteins respectively, detected exclusively in the nuclear fractions.



IF (Immunofluorescence)

Immunofluorescent analysis of HeLa cells stained with chicken pAb to lamin A/C, AAA76712, dilution 1:2,000 in red, and costained with mouse mAb to actin in green. The blue is Hoechst staining of nuclear DNA. The antibody specifically labels the nuclear lamina, while the actin antibody stains the submembranous actin-rich cytoskeleton, stress fibers and bundles of actin associated with cell adhesion sites.

ADDITIONAL INFORMATION

Related Product Information for anti-LaminA/C antibody

Lamin A and lamin C are members of the intermediate filament protein family and are located in the nucleus where they function as skeletal components of the inner nuclear membrane. The two proteins are generated by alternate transcription from the single LMNA gene. Lamin A has a molecular weight of about 74kDa while lamin C is 65kDa. The lamin A protein includes a C-terminal segment of 98 amino acids missing from lamin C, while lamin C has a unique C-terminal 6 amino acid peptide not present in lamin A. As a result antibodies raised against lamin A are almost certain bind to lamin C. During cell division the nuclear lamina breaks down and lamin A/C containing filaments depolymerize, this being regulated by phosphorylation by cyclin dependent protein kinase 1. Mutations in the lamin A/C gene are associated with several serious human diseases.

This antibody was raised against full length recombinant human lamin A, binds human lamin C, and works with the rodent protein also.

NCBI AND UNIPROT INFORMATION

NCBI GI #	383792150
NCBI GeneID	4000
NCBI Accession #	NP_001244303.1
NCBI GenBank Nucleotide #	NM_001257374.1
UniProt Accession #	P02545; P02546; Q5TCJ2; Q5TCJ3; Q969I8; Q96JA2; B4DI32; D3DVB0; E7EUI9
Molecular Weight	74,65kDa
NCBI Official Full Name	lamin isoform D
NCBI Official Synonym Full Names	lamin A/C
NCBI Official Symbol	LMNA
NCBI Official Synonym Symbols	FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMN1; LMNC; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B
NCBI Protein Information	lamin; 70 kDa lamin; prelamin-A/C; lamin A/C-like 1; renal carcinoma antigen NY-REN-32
UniProt Protein Name	Prelamin-A/C
UniProt Gene Name	LMNA
UniProt Synonym Gene Names	LMN1
UniProt Entry Name	LMNA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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