NEUROMICS

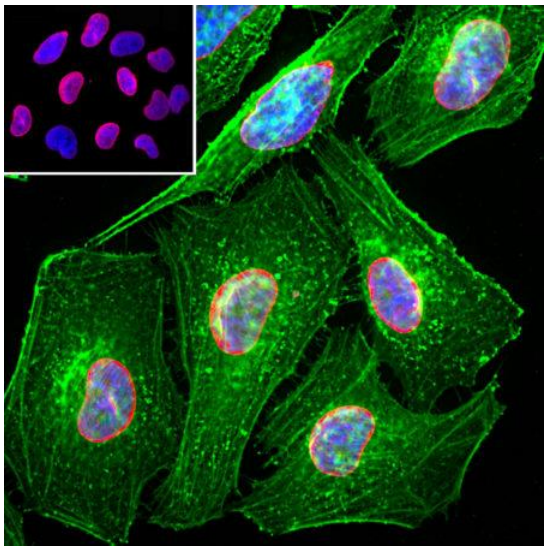
Lamin A/C Data Sheet

Catalog Number:	CH22136	**Host:**	Chicken
Product Type:	Chicken Polyclonal	**Species Reactivity:**	Human, Rat, Mouse, Horse, Dog, Monkey
Immunogen Sequence:	Full length recombinant human lamin A protein expressed in and purified from *E. coli.*	**Format:**	Supplied as an aliquot of concentrated IgY preparation plus 5mM NaN3
Applications:	Immunofluorescence: 1:1,000 Western Blot: 1:2,000		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. The antibody can be stored at 2° - 8° C for 12 months without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

Application Notes

Description/Data

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.

Image: Immunofluorescent analysis of HeLa cells stained with chicken pAb to lamin A/C, CH22136, dilution 1:2,000 in red, and costained with mouse mAb to actin, dilution 1:500, 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.

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