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Product datasheet for AM26004PU-N

Lamin A (LMNA) Mouse Monoclonal Antibody [Clone ID: EM-11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EM-11
Applications:	IF, IP, WB
Recommended Dilution:	Immunoprecipitation. Western blot. Immunocytochemistry (paraformaldehyde fixation possible).
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody recognizes lamin C, intermediate filament protein of nuclear lamina.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography; purity > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	lamin A/C
Database Link:	Entrez Gene 16905 MouseEntrez Gene 4000 Human P02545

View online »

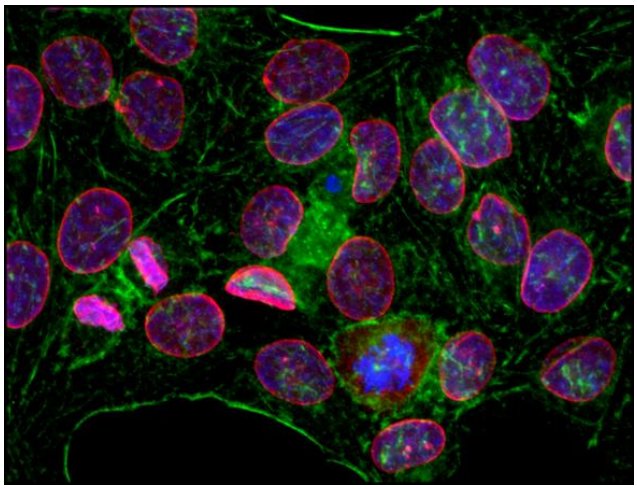
Background: Lamin C is intermediate filament protein localized to the inner nuclear membrane. It is expressed predominantly in terminally differentiated cells and defines the shape and stability of nuclei in mammalian cells. Besides their structural roles, lamin proteins also regulate fundamental aspects of nuclear function and they cross-talk with cell signaling cascades and cell metabolism. Mutations of LMNA gene, encoding lamin A and C proteins, are often associated with pathogenesis of respective cell types, such as of heart myocytes.

Synonyms: LMNA, LMN1, 70 kDa Lamin, NY-REN-32, NYREN32, Lamin-A/C, Lamin A, Lamin A + C, Nuclear Envelope Marker

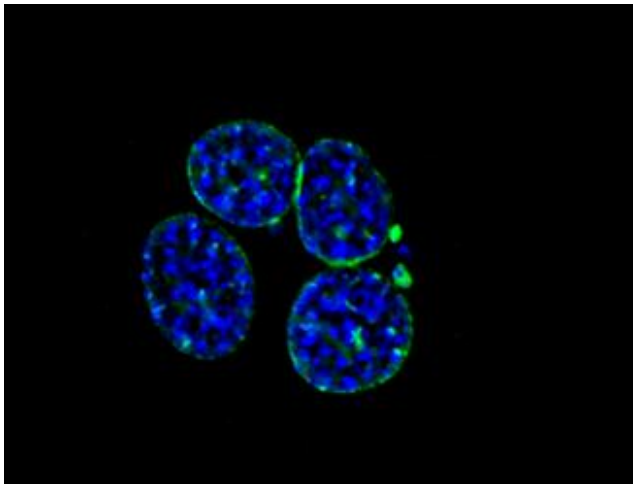
Protein Families: Druggable Genome

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Product images:



Immunofluorescence staining of lamin C (red) in HeLa cells by monoclonal antibody EM-11. Actin decorated by phalloidin-Alexa Fluor?488 (green), DNA stained by DAPI (blue).



Immunofluorescence staining of lamin C (green) in mouse EL-6 fibroblasts by monoclonal antibody EM-11. DNA stained by DAPI (blue).