

Product datasheet for **AM09126SU-N**

Lamin A (LMNA) Mouse Monoclonal Antibody [Clone ID: R27]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R27
Applications:	IF, IHC, WB
Recommended Dilution:	Immunofluorescence Microscopy. Immunoblotting (Western). Working Dilution: Ready-to-use for Immunofluorescence microscopy. Incubation Time: 1 h at RT.
Reactivity:	Bovine, Fish, Human, Mouse, Rat, Xenopus, Zebrafish
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Nuclear pore complex-lamina fraction of Bovine liver.
Specificity:	The monoclonal antibody decorates the lamina, i.e. the nucleoplasmic layer coating the nuclear envelope. Mutations in lamin A have been shown to cause Hutchinson-Gilford progeria syndrome in Human and Mouse and other laminopathies (for review see Burke & Stewart, 2002). Polypeptide(s) Reacting: Lamin isotypes A and C (Mr 60-75 kD); meiotic lamin C2. Tested Reactivity on Cultured Cell Lines: RV-SMC (Rat Vascular Smooth Muscle Cells).
Formulation:	State: Supernatant State: Hybridoma Culture Supernatant Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	lamin A/C
Database Link:	Entrez Gene 16905 Mouse Entrez Gene 60374 Rat Entrez Gene 4000 Human P02545



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Background:	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.
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)