

Mouse Monoclonal Antibody to LMNA

Catalogue Number sAP-0597

Target Molecule **Name:** LMNA

Aliases: FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMN1; LMNC; PRO1; CDCC1; CMD1A; FPLD2; LMNL1; CMT2B1

MW: 74kDa

Description The nuclear lamina consists of a two-dimensional matrix of proteins located next to the inner nuclear membrane. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability, chromatin structure and gene expression. Vertebrate lamins consist of two types, A and B. Through alternate splicing, this gene encodes three type A lamin isoforms. Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome.

Immunogen Purified recombinant fragment of human LMNA expressed in E. Coli.

Recitative Species Human; Mouse; Rat

Clone MM4E7;

Size and Concentration 100µg/1mg/ml

Supplied as Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.

Reconstitution/Storages Reconstituted with 100µl sterile DI H₂O, at stored at 4°C or -20°C for short or long term storage

Applications ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000

Shipping Regular FEDEX overnight shipment (ambient temperature)

Reference 1. Muscle Nerve. 2010 Jan;41(1):85-91. ; 2. Endocrine. 2009 Dec;36(3):518-23.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**