

Lamin B1 (LMNB1) ELISA Kit | LMNB1 elisa kit

Multi-species Lamin B1 (LMNB1) ELISA Kit

CATALOG #
AAA186864

REACTIVITY
Human, Mouse, Rat

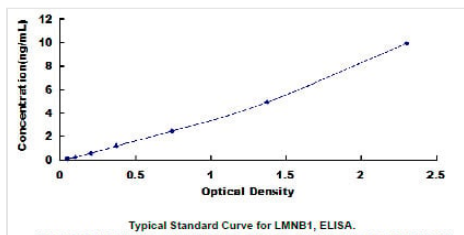
PRODUCT SYNONYMS

Lamin B1 (LMNB1); Multi-species Lamin B1 (LMNB1) ELISA Kit; Human/Mouse/Rat Lamin B1 (LMNB1) (Sandwich ELISA) ELISA Kit; LMN; LMN2; LMNB; LMNB1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Specificity	This assay has high sensitivity for detection of LMNB1. 100% cross-reactivity of LMNB1 was observed among human, mouse and rat.
Sequence Length	586
Samples	Tissue homogenates, cell lysates and other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	<0.057ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LMNB1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level LMNB1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LMNB1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of LMNB1 in tissue homogenates, cell lysates and other biological fluids. Due to the 95% homology of the sequence among different species, the kit can be used to detect human, mouse and rat samples. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to LMNB1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to LMNB1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain LMNB1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of LMNB1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
References	Mybl2 rejuvenates heart explant-derived cells from aged donors after myocardial infarction; Aging Cell; 2020 Jul;19(7):e13174.; PMID: 32558221; Ghazaleh Rafatian; Department of Cellular and Molecular Medicine, University of Ottawa, Ottawa, ON, Canada.

NCBI AND UNIPROT INFORMATION

NCBI GI #	576840
NCBI GeneID	4001
Molecular Weight	66,408 Da
NCBI Official Full Name	lamin B1
NCBI Official Synonym Full Names	lamin B1
NCBI Official Symbol	LMNB1
NCBI Official Synonym Symbols	LMN; ADLD; LMN2; LMNB
NCBI Protein Information	lamin-B1
UniProt Protein Name	Lamin-B1
UniProt Gene Name	LMNB1
UniProt Synonym Gene Names	LMN2; LMNB

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.