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Mouse Monoclonal Antibody to LMNB2
Purified Mouse Monoclonal Antibody
Catalog # AO2338a

Specification

Mouse Monoclonal Antibody to LMNB2 - Product Information

Application	**WB, IHC, FC, ICC, E**
Primary Accession	Q03252
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2b**
Calculated MW	**67.7kDa KDa**

Description
This gene encodes a B type nuclear lamin. 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. Mutations in this gene are associated with acquired partial lipodystrophy.;

Immunogen
Purified recombinant fragment of human LMNB2 (AA: 401-600) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

Application Note
ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; ICC: 1/200 - 1/1000; FCM: 1/200 - 1/400

Mouse Monoclonal Antibody to LMNB2 - Additional Information

Gene ID 84823

Other Names
LMN2; LAMB2

Dilution
WB~~1:1000
IHC~~1:100~500
FC~~1:10~50
ICC~~N/A
E~~N/A

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Monoclonal Antibody to LMNB2 is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Monoclonal Antibody to LMNB2 - Protein Information

Name LMNB2

Synonyms LMN2

Function
Lamins are intermediate filament proteins that assemble into a filamentous meshwork, and which constitute the major components of the nuclear lamina, a fibrous layer on the nucleoplasmic side of the inner nuclear membrane (PubMed:33033404). Lamins provide a framework for the nuclear envelope, bridging the nuclear envelope and chromatin, thereby playing an important role in nuclear assembly, chromatin organization, nuclear membrane and telomere dynamics (PubMed:33033404). The structural integrity of the lamina is strictly controlled by the cell cycle, as seen by the disintegration and formation of the nuclear envelope in prophase and telophase, respectively (PubMed:33033404).

Cellular Location
Nucleus lamina.

Mouse Monoclonal Antibody to LMNB2 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Monoclonal Antibody to LMNB2 - Images

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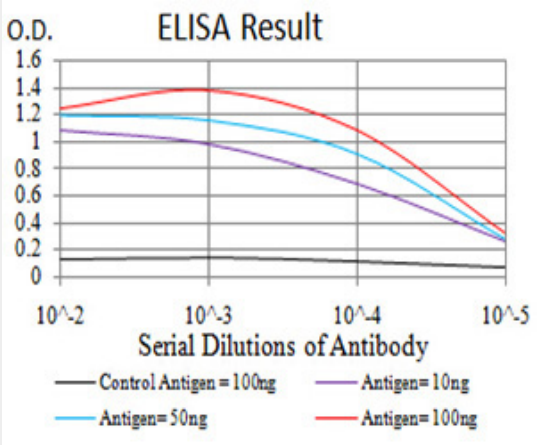
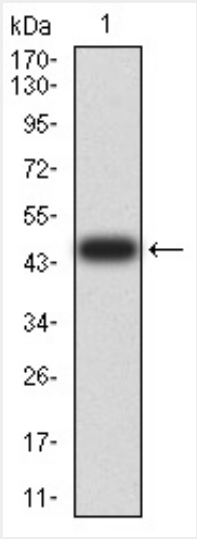
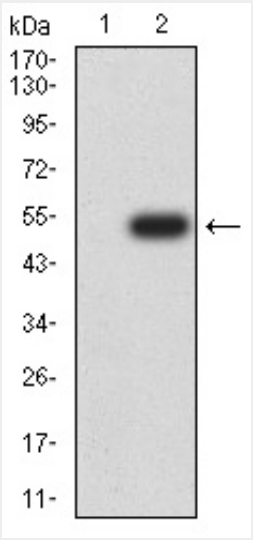


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using LMNB2 mAb against human LMNB2 (AA: 401-600) recombinant protein. (Expected MW is 47.6 kDa)



Western blot analysis using LMNB2 mAb against HEK293 (1) and LMNB2 (AA: 401-600)-hIgGFc transfected HEK293 (2) cell lysate.

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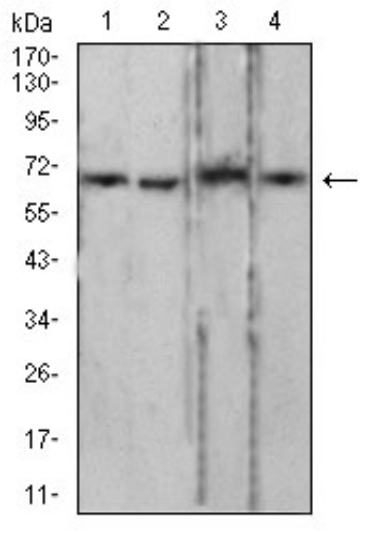
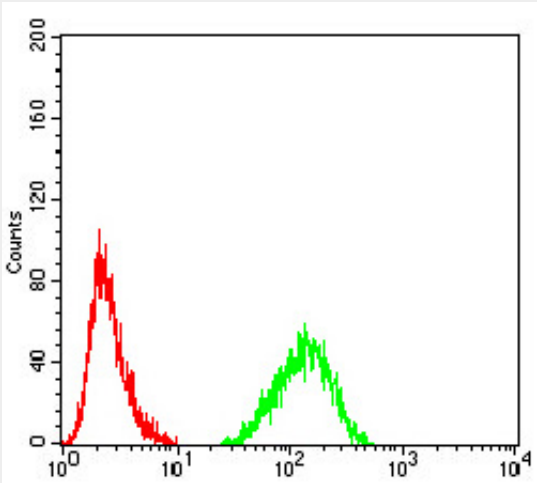
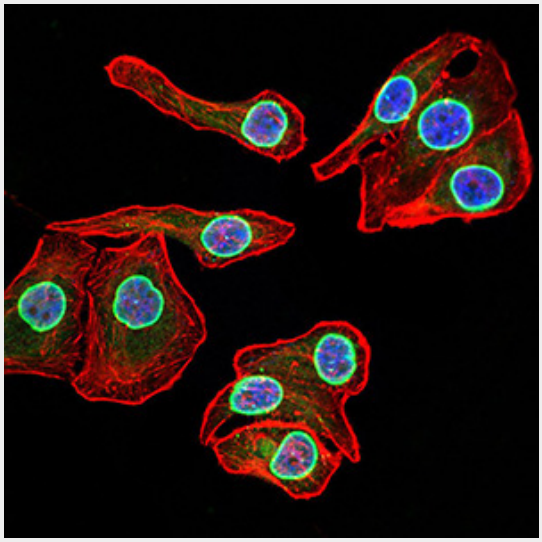


Western blot analysis using LMNB2 mouse mAb against PC-3 (1), LNcap (2), Jurkat (3), and HCT116 (4) cell lysate.

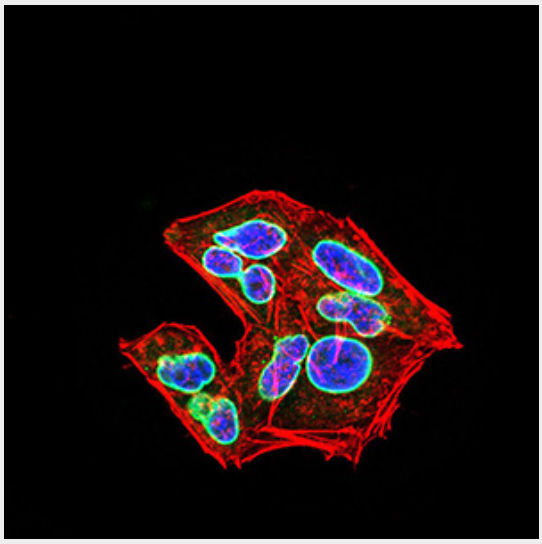


Flow cytometric analysis of Hela cells using LMNB2 mouse mAb (green) and negative control (red).



Immunofluorescence analysis of GC-7901 cells using LMNB2 mouse mAb (green). Blue: DRAQ5

fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher



Immunofluorescence analysis of Hela cells using LMNB2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher

Mouse Monoclonal Antibody to LMNB2 - References

1.J Pediatr Endocrinol Metab. 2012;25(3-4):375-7. ; 2.FEBS Lett. 2006 Nov 13;580(26):6211-6. ;