LMNB2 Blocking Peptide

PRODUCT OVERVIEW

Product Name	LMNB2, Blocking Peptide
Full Product Name	LMNB2 Peptide
Product Gene Name	LMNB2 blocking peptide
Product Synonym Gene Name	LAMB2; LMN2; MGC2721
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	LMNB2 peptide (MBS3233133) is used for blocking the activity of LMNB2 antibody (MBS3208170)
Molecular Weight	68kDa
OMIM	gene 608709
Product Categories/Family for LMNB2 blocking peptide	Peptide
Applications Tested/Suitable for LMNB2 blocking peptide	Western Blot (WB)
Related Product Information for LMNB2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-LMNB2 antibody made Target 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. LMNB2 is one of the two B type proteins, B2.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. This gene encodes one of the two B type proteins, B2. This gene is in a head-to-tail orientation with the gene for the translocase of inner mitochondrial membrane 13 homolog gene.
Other Notes	Small volumes of LMNB2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LMNB2 purchase	MBS3233133 is a blocking peptide targeting LMNB2. Also known as LMNB2 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LMNB2. It may not necessarily be applicable to this product.

NCBI GI #	388240801
NCBI GeneID	84823
NCBI Accession #	NP_116126
UniProt Primary Accession #	Q03252
UniProt Related Accession #	Q03252

GenBank Nucleotide #	NM_032737
NCBI Official Full Name	lamin-B2
NCBI Official Synonym Full Names	lamin B2
NCBI Official Symbol	LMNB2
NCBI Official Synonym Symbols	EPM9; LMN2; LAMB2
UniProt Protein Name	Lamin-B2
Protein Family	Lamin
UniProt Gene Name	LMNB2
UniProt Synonym Gene Names	LMN2
UniProt Entry Name	LMNB2_HUMAN
NCBI Protein Information	lamin-B2
NCBI Summary for LMNB2	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. [provided by RefSeq, May 2012]
UniProt Comments for LMNB2	Lamin B2: nuclear lamins are intermediate filament proteins that constitute the lattice-like matrix at the inner face of the nuclear membrane that underlies the nuclear envelop. The lamins, highly conserved throughout evolution, are encoded by three genes in the human: LMNA, LMNB1, and LMNB2. The A-type lamins (lamin A/C) are developmentally regulated and are generally expressed in differentiated cells. The anchoring of chromatin to the nuclear lamina is involved in the control of gene expression and in DNA replication and repair. During mitosis, the nuclear lamina is reversibly disassembled as the lamin proteins are phosphorylated. B-type lamins are phosphorylated within minutes of engaging the IgM surface receptor of resting splenic B cells. Lamin B2 may be lost during the follicle centre stage of B-cell differentiation in humans. Nuclear lamins are cleaved by caspases during apoptosis. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: lamin filament; nuclear inner membrane Molecular Function: structural molecule activity Disease: Lipodystrophy, Partial, Acquired, Susceptibility To
Research Articles on LMNB2	**1.** our studies strongly implicate an overarching role for Lamin B2 in the maintenance of nuclear architecture since loss of Lamin B2 relieves the spatial positional constraints required for maintaining conserved localization of aneuploid chromosome territories in the interphase nucleus.
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