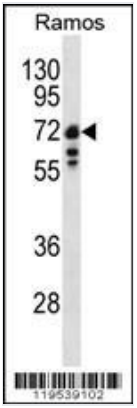
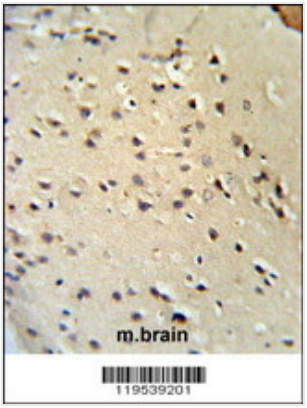
Lamin B1 (LMB1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Lamin B1 (LMB1), Polyclonal Antibody
Full Product Name	Lamin B1, CT (Lamin-B1, LMB1, LMN, LMN2, LMNB, LMNB1, ADLD, MGC111419) (APC)
Product Gene Name	anti-LMB1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human Lamin B1.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	66kDa
OMIM	gene 169500
3D Structure	ModBase 3D Structure for P20700
Immunogen	Synthetic peptide selected from the C-terminal region of human Lamin B1 (KLH).
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-LMB1 antibody	Antibodies; Lamin; Laminin
Applications Tested/Suitable for anti-LMB1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-LMB1 antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-LMB1 antibody	MBS6484647 is an antibody targeting LMB1. Also known as Lamin B1, CT (Lamin-B1, LMB1, LMN, LMN2, LMNB, LMNB1, ADLD, MGC111419) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-LMB1 antibody	1. Martin, C., J. Cell. Sci. 122(PT 10), 1551-1562 (2009). 2. Brussino, A., J. Neurol. Neurosurg. Psychiatr. 80(2), 237-240 (2009).
Other Notes	Small volumes of anti-LMB1 antibody 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.



Western Blot (WB) of anti-LMB1 antibody
Western blot analysis of Lamin B1 antibody (C-term) in Ramos cell line lysates (35ug/lane). Lamin B1 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-LMB1 antibody
Lamin B1 Antibody (C-term) IHC analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the Lamin B1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LMB1. It may not necessarily be applicable to this product.

NCBI GI #	5031877
NCBI GeneID	4001
NCBI Accession #	NP_005564
UniProt Primary Accession #	P20700
UniProt Related Accession #	P20700
GenBank Nucleotide #	NM_005573
NCBI Official Full Name	lamin-B1 isoform 1
NCBI Official Synonym Full Names	lamin B1
NCBI Official Symbol	LMNB1
NCBI Official Synonym Symbols	LMN; ADLD; LMN2; LMNB
UniProt Protein Name	Lamin-B1
Protein Family	Lamin
UniProt Gene Name	LMNB1
UniProt Synonym Gene Names	LMN2; LMNB
UniProt Entry Name	LMNB1_HUMAN
NCBI Protein Information	lamin-B1
NCBI Summary for LMB1	This gene encodes one of the two B-type lamin proteins and is a component of the nuclear lamina. A duplication of this gene is associated with autosomal dominant adult-onset leukodystrophy (ADLD). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

UniProt Comments for LMB1	Lamin B1: 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. Nuclear lamins are cleaved by caspases during apoptosis. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 5q23.2 Cellular Component: nucleoplasm; nuclear membrane; membrane; lamin filament; nuclear inner membrane; nuclear envelope Molecular Function: phospholipase binding; structural molecule activity Biological Process: apoptosis; cell structure disassembly during apoptosis Disease: Leukodystrophy, Demyelinating, Adult-onset, Autosomal Dominant
Research Articles on LMB1	**1.** Results show that HECW2 interacts with lamin B1 mediating its ubiquitination and proteasomal degradation.
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