

## Lamin B1 (7C11) Mouse mAb

CatalogNo: YM3036

Orthogonal Validated Comparable Abs 

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Rat, Mouse

#### Applications

- WB, IHC, IF, IP

#### MW

- 68kD (Observed)

### Recommended Dilution Ratios

WB 1:2000-5000

IP 1:200

IF 1:200

IHC 1:50-300

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

### Basic Information

**Clonality** Monoclonal**Clone Number** 7C11

### Immunogen Information

**Immunogen** Recombinant Protein of Lamin-B1**Specificity** The antibody detects endogenous Lamin B1 protein.

## Target Information

Gene name LMNB1

Protein Name Lamin-B1

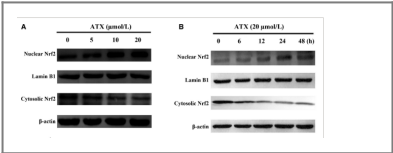
Organism	Gene ID	UniProt ID
Human	<a href="#">4001</a> ;	<a href="#">P20700</a> ;
Mouse	<a href="#">16906</a> ;	<a href="#">P14733</a> ;
Rat	<a href="#">116685</a> ;	<a href="#">P70615</a> ;

Cellular Localization Nucleus lamina .

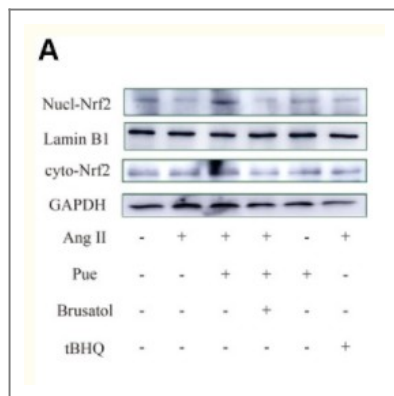
Tissue specificity Brain,Cajal-Retzius cell,Epithelium,Eye,Fetal brain cortex,Ovarian carcinoma,Placenta,Uterus,

Function Disease:Defects in LMNB1 are the cause of leukodystrophy demyelinating autosomal dominant adult-onset (ADLD) [MIM:169500]. ADLD is a slowly progressive and fatal demyelinating leukodystrophy, presenting in the fourth or fifth decade of life. Clinically characterized by early autonomic abnormalities, pyramidal and cerebellar dysfunction, and symmetric demyelination of the CNS. It differs from multiple sclerosis and other demyelinating disorders in that neuropathology shows preservation of oligodendroglia in the presence of subtotal demyelination and lack of astrogliosis.,Function:Lamins are components of the nuclear lamina, a fibrous layer on the nucleoplasmic side of the inner nuclear membrane, which is thought to provide a framework for the nuclear envelope and may also interact with chromatin.,miscellaneous: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.,PTM:B-type lamins undergo a series of modifications, such as farnesylation and phosphorylation. Increased phosphorylation of the lamins occurs before envelope disintegration and probably plays a role in regulating lamin associations.,similarity:Belongs to the intermediate filament family.,subunit:Interacts with lamin-associated polypeptides IA, IB and 2.,

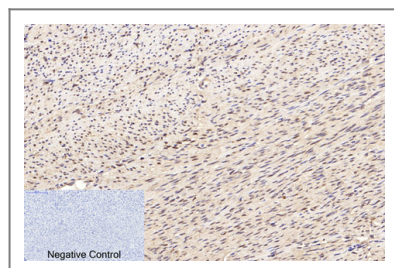
## Validation Data



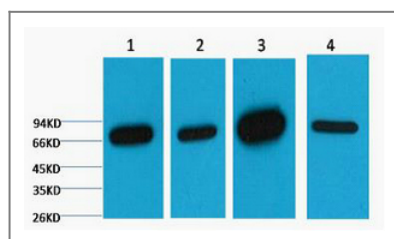
Zhang, Jie, et al. "Neuroprotective effects of astaxanthin against oxygen and glucose deprivation damage via the PI3K/Akt/GSK3β/Nrf2 signalling pathway in vitro." Journal of Cellular and Molecular Medicine 24.16 (2020): 8977-8985.



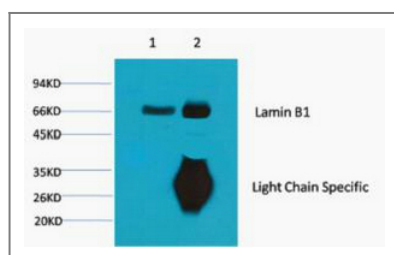
Cai, Shao-Ai, et al. "Nrf2 is a key regulator on puerarin preventing cardiac fibrosis and upregulating metabolic enzymes UGT1A1 in rats." *Frontiers in pharmacology* 9 (2018).



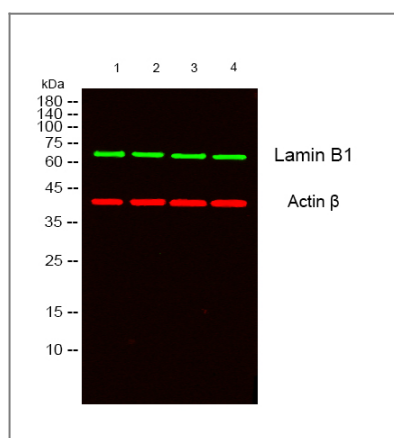
Immunohistochemical analysis of paraffin-embedded Human-uterus tissue.  
 1, Lamin B1 Monoclonal Antibody(7C11) was diluted at 1:200(4°C, overnight).  
 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min).  
 3, Secondary antibody was diluted at 1:200(room temperature, 30min).  
 Negative control was used by secondary antibody only.



Western blot analysis of 1) HepG2, 2) 293T, 3) Mouse Brain Tissue, 4) Rat Brain Tissue, diluted at 1:5000. cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



1) Input: Mouse Brain Tissue Lysate 2) IP product: IP dilute 1:200



Western blot analysis of lysates from 1) HepG2, 2) 293T, 3) Mouse Brain Tissue, 4) Rat Brain Tissue cells, (Green) primary antibody was diluted at 1:1000, 4° over night, secondary antibody(cat:RS23910) was diluted at 1:10000, 37° 1hour. (Red) Actin β Polyclonal Antibody (cat:YT0099) antibody was diluted at 1:5000 as loading control, 4° over night, secondary antibody(cat:RS23720) was diluted at 1:10000, 37° 1hour.

## Contact information

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Please scan the QR code  
to access additional  
product information:  
**Lamin B1 (7C11)**  
**Mouse mAb**

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