

## Lamin B1 (PTR1392) Mouse mAb

CatalogNo: YM4252 **Recombinant** 

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IF, ELISA

#### MW

- 66kD (Calculated)  
68kD (Observed)

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### Recommended Dilution Ratios

**WB 1:500-2000****IF 1:100-500****ELISA 1:1000-5000**

### Basic Information

**Clonality** Monoclonal**Clone Number** PTR1392

### Immunogen Information

**Immunogen** AA range: 400-500**Specificity** This antibody detects endogenous levels of Lamin B1 protein.

## Target Information

**Gene name** LMNB1

**Protein Name** Lamin-B1

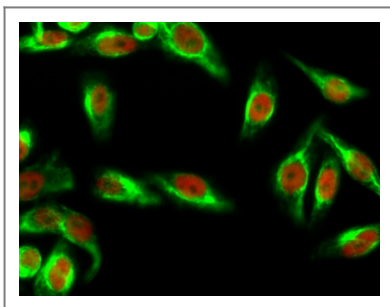
Organism	Gene ID	UniProt ID
Human	<a href="#">4001</a> ;	<a href="#">P20700</a> ;
Mouse	<a href="#">16906</a> ;	<a href="#">P14733</a> ;
Rat	<a href="#">116685</a> ;	<a href="#">P70615</a> ;

**Cellular Localization** Nucleus lamina

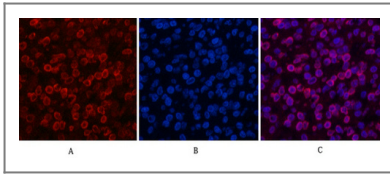
**Tissue specificity** Brain,Cajal-Retzius cell,Epithelium,Eye,Fetal brain cortex,Ovarian carcinoma,Placenta,Uterus,

**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.,

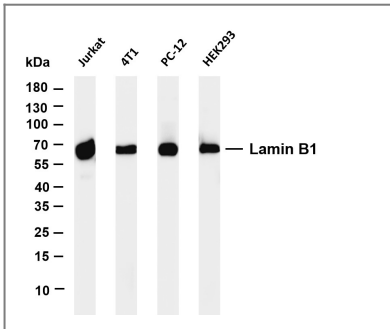
## Validation Data



Immunofluorescence analysis of HeLa cell. 1,Rabbit  $\beta$ -Tubulin Antibody YM8335 (green) was diluted at 1:200 (4°C overnight).Lamin B1 Antibody (red) was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 594 Catalog:RS3608 was diluted at 1:1000 (room temperature, 50min).



Immunofluorescence analysis of Human-lung-cancer tissue. 1, Lamin B1 Monoclonal Antibody (7C11) (red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Lamin B1 (PTR1392) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: Jurkat Lane 2: 4T1 Lane 3: PC-12 Lane 4: HEK293 Predicted band size: 66kDa Observed band size: 66kDa

## Contact information

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Please scan the QR code to access additional product information:  
**Lamin B1 (PTR1392)**  
**Mouse mAb**

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