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## lamin B1 Mouse mAb, Nuclear Loading Control

Catalog Number: bsm-33040M

Target Protein: lamin B1

Concentration: 1mg/ml

Form: Size : 50ul/100ul/500ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 9C11

Isotype: IgG1

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Rat

Predicted MW: 64 kDa

Entrez Gene: 4001

Swiss Prot: P20700

Source: Recombinant human Lamin B Protein: 314-386/586.

Purification: affinity purified by Protein G

Storage: Size : 50ul/100ul/500ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

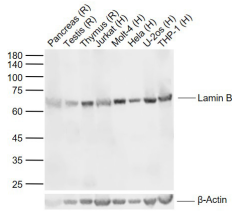
Size : 200ug (PBS only)

0.01M PBS

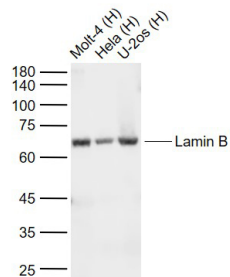
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** 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, B1. Alternative splicing results in transcript variants and a duplication of this gene is associated with autosomal dominant adult-onset leukodystrophy (ADLD). [provided by RefSeq, Oct 2010].

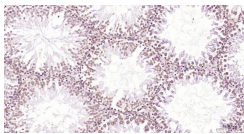
## VALIDATION IMAGES



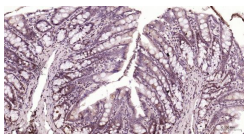
Sample: Lane 1: Rat Pancreas tissue lysates Lane 2: Rat Testis tissue lysates Lane 3: Rat Thymus tissue lysates Lane 4: Human Jurkat cell lysates Lane 5: Human Molt-4 cell lysates Lane 6: Human Hela cell lysates Lane 7: Human U-2os cell ysates Lane 8: Human THP-1 cell lysates Primary: Anti-Lamin B (bsm-33040M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 64 kDa Observed band size: 64 kDa



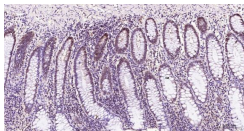
Sample: Lane 1: Human Molt-4 cell lysates Lane 2: Human Hela cell lysates Lane 3: Human U-2os cell ysates Primary: Anti-Lamin B (bsm-33040M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 64 kDa Observed band size: 64 kDa



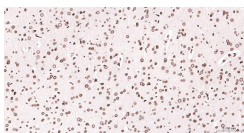
Paraformaldehyde-fixed, paraffin embedded Rat Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with lamin B1 Monoclonal Antibody, Unconjugated (ascites of bsm-33040M) at 1:300 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with lamin B1 Monoclonal Antibody, Unconjugated (ascites of bsm-33040M) at 1:300 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with lamin B1 Monoclonal Antibody, Unconjugated (ascites of bsm-33040M) at 1:300 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with lamin B1 Monoclonal Antibody, Unconjugated (ascites of bsm-33040M) at 1:300 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=5.195] Yanqiu Sun. et al. Xinfeng capsule inhibits inflammation and oxidative stress in rheumatoid arthritis by up-regulating LINC00638 and activating Nrf2/HO-1 pathway. J ETHNOPHARMACOL. 2023 Jan;301:115839 WB ; Human . 36272490