bs-1839R **[Primary Antibody]**

Lamin A/C Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4000 **SWISS:** P02545

Target: Lamin A/C

Immunogen: KLH conjugated synthetic peptide derived from human lamin A: 1-100/664.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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. Alternative splicing results in multiple transcript variants. Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome. [provided by RefSeq, Apr 2012]

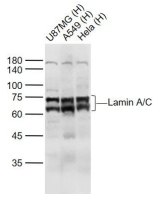
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat)

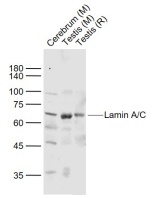
Predicted MW.: 73 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Lane 1: U87MG (Human) Cell Lysate at 30 ug Lane 2: A549 (Human) Cell Lysate at 30 ug Lane 3: Hela (Human) Cell Lysate at 30 ug Primary: Anti-Lamin A/C (bs-1839R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 74/65 kD Observed band size: 74/63 kD



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Testis (Mouse) Lysate at 40 ug Lane 3: Testis (Rat) Lysate at 40 ug at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 75/65 kD Observed band size: 67 kD

SELECTED CITATIONS

- **[IF=14.976]** Qinyu Ma. et al. Small extracellular vesicles deliver osteolytic effectors and mediate cancer‐induced osteolysis in bone metastatic niche. J Extracell Vesicles. 2021 Feb;10(4):e12068 WB ;Mouse. 33659051
- **[IF=7.032]** Mengmeng Liang. et al. Osteoclast-derived small extracellular vesicles induce osteogenic differentiation via inhibiting ARHGAP1. Mol Ther-Nucl Acids. 2021 Mar;23:1191 WB ;Mouse. 33664997
- **[IF=5.587]** Qi et al. Targeting the Wnt-Regulatory Protein CTNNBIP1 by microRNA-214 Enhances the Stemness and Self-Renewal of Cancer Stem-Like Cells in Lung Adenocarcinomas. (2015) Stem.Cells. 33(12):3423-36 WB ;Human. 26299367

- **[IF=4.85]** Yutong Wu. et al. Osteoclast-derived extracellular miR-106a-5p promotes osteogenic differentiation and facilitates bone defect healing. CELL SIGNAL. 2022 Dec;:110549 WB ;Mouse. 36464103
- **[IF=2.9]** Yimei Zhou. et al.The role of RAP2 in regulation of cell volume on bone marrow mesenchymal stem cell fate determination.JOURNAL OF MOLECULAR HISTOLOGY.2025 Feb 4;56(2):79. IF ;Mouse. 39903386