Catalog No. BN41116R

Rabbit Anti-Lamin B1 Polyclonal Antibody

DATASHEET

Host: Rabbit

Target Protein: Lamin B1

IR: Immunogen Range:397-586/586

Clonality: Polyclonal

Isotype: IgG

Entrez Gene:4001

Swiss Prot:P20700

Source: Recombinant human Lamin B1:397-586/586

Purification:affinity purified by Protein A

Storage:0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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].

Size:100ul

Concentration:1mg/ml

Applications:

WB(1:500-2000)
IHC-P(1:50-200)
IHC-F(1:50-200)
IF(1:50-200)

Cross Reactive Species:

Human
Mouse
Rat
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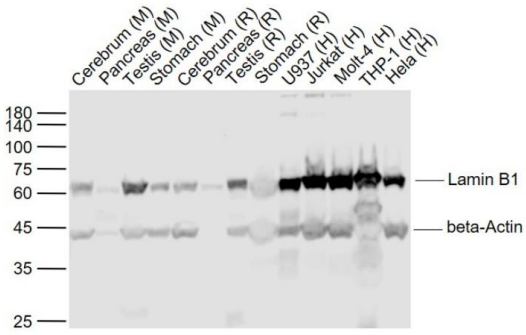
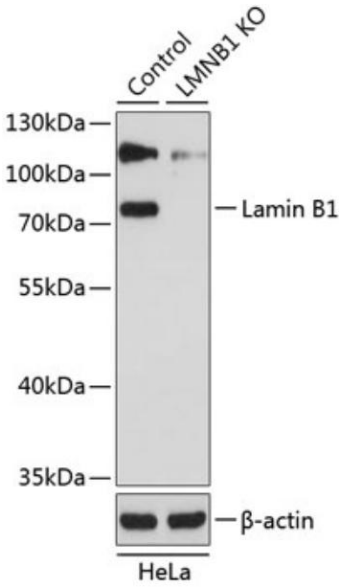
For research use only. Not intended for diagnostic or therapeutic use.

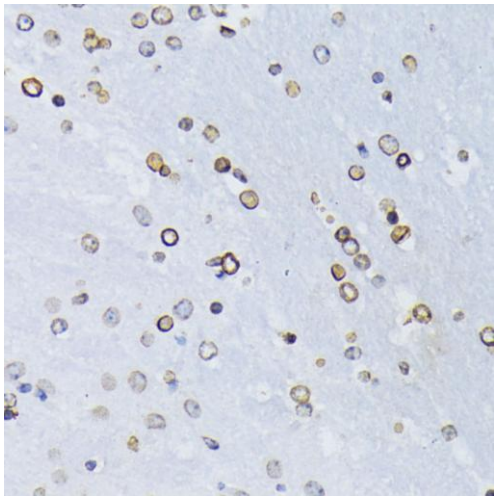
VALIDATION IMAGES



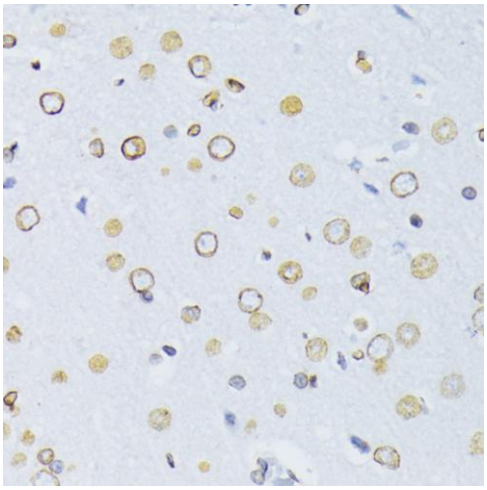
Sample:
Lane 1: Cerebrum (Mouse) Lysate at 40 ug
Lane 2: Pancreas (Mouse) Lysate at 40 ug
Lane 3: Testis (Mouse) Lysate at 40 ug
Lane 4: Stomach (Mouse) Lysate at 40 ug
Lane 5: Cerebrum (Rat) Lysate at 40 ug
Lane 7: Testis (Rat) Lysate at 40 ug
Lane 8: Stomach (Rat) Lysate at 40 ug
Lane 9: U937 (Human) Cell Lysate at 30 ug
Lane 10: Jurkat (Human) Cell Lysate at 30 ug
Lane 11: Molt-4 (Human) Cell Lysate at 30 ug
Lane 12: THP-1 (Human) Cell Lysate at 30 ug
Lane 13: Hela (Human) Cell Lysate at 30 ug
Primary:
Anti- Lamin B1 at 1/1000 dilution
Anti-beta-Actin at 1/2000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 67-70 kD
Observed band size: 65 kD



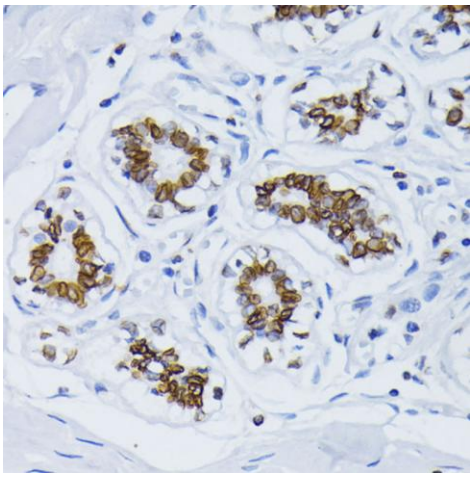
Sample:
Lane 1: Hela (Human) Cell Lysate at 25 ug
Lane 2: Lamin B1 knockout (KO) Hela (Human) Cell Lysate at 25 ug
Primary: Anti-Lamin B1 at 1/1000 dilution
Secondary: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution
Predicted band size: 67-70 kD
Observed band size: 72 kD



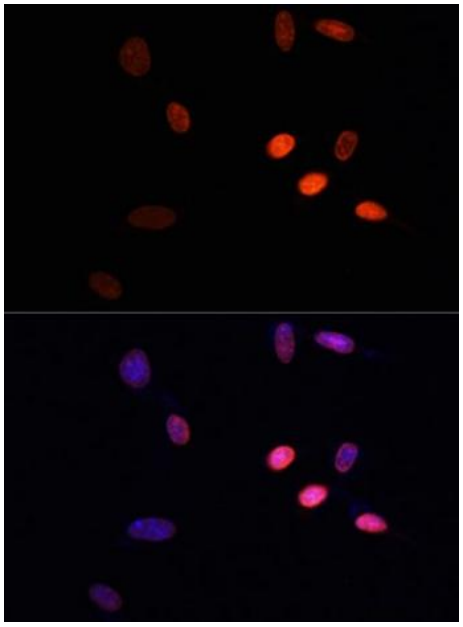
Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Lamin B1) Polyclonal Antibody, Unconjugated at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Lamin B1) Polyclonal Antibody, Unconjugated at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human breast); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Lamin B1) Polyclonal Antibody, Unconjugated at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) instructionsand DAB staining.



NIH/3T3 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (KO Validated)Lamin B1 polyclonal Antibody, Unconjugated 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.