

Product datasheet for **AP20660PU-N**

Lamin B1 (LMNB1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1:500 - 1:1000. Immunohistochemistry on paraffin sections: 1:50 - 1:200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Lamin B1 protein. (region surrounding Leu75)
Formulation:	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 68 kDa
Gene Name:	lamin B1
Database Link:	<u>Entrez Gene 16906 Mouse</u> <u>Entrez Gene 116685 Rat</u> <u>Entrez Gene 4001 Human</u> <u>P20700</u>



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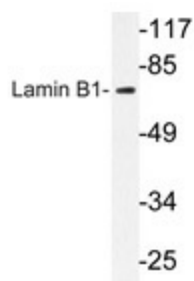
Background:

An important part of the nucleus is formed by nuclear lamina. Nuclear lamins form a network of filaments at the nucleoplasmic site of the nuclear membrane. Two main subtypes of nuclear lamins can be distinguished, i.e. A type lamins and B type lamins. The A type lamins comprise a set of three proteins arising from the same gene by alternative splicing, i.e. lamin A, lamin C and lamin A/C, while the B-type lamins include two proteins arising from two distinct genes, i.e. lamin B1 and lamin B2. The nuclear lamins comprise a unique subclass of the intermediate filament protein family. They share a molecular domain organisation with the other intermediate filament proteins in that they are fibrous molecules that have an aminoterminal globular head, a central rod of alpha helices and a carboxy terminal globular domain. Many biochemical and molecular features of lamins have been studied, but their functions remain still largely undetermined. One of the functions ascribed to the lamina is the maintenance of the structural integrity of the nucleus.

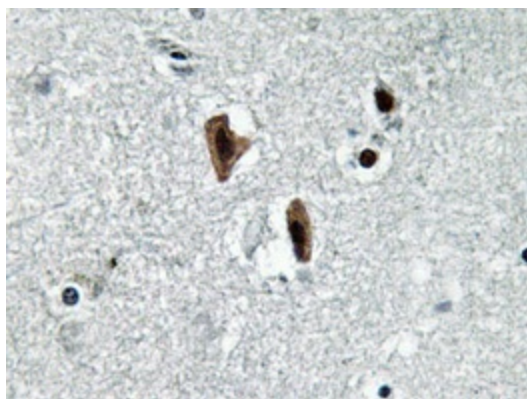
Synonyms:

Lamin-B1, LMNB1, LMNB-1, LMN2, LMNB, Nuclear Envelope Marker

Product images:



Western blot analysis of Lamin B1 antibody (Cat.-No.: AP20660PU-N) in extracts from COLO cells.



Immunohistochemistry analysis of Lamin B1 antibody (Cat.-No.: AP20660PU-N) in paraffin-embedded human brain tissue.