

Product datasheet

Anti-Lamin B1 antibody ab231282

3 Images

Overview

Product name	Anti-Lamin B1 antibody
Description	Rabbit polyclonal to Lamin B1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment (His-tag) corresponding to Human Lamin B1 aa 52-233. (Expressed in E.coli). Sequence: SLETENSALQLQVTEREEVRGRELTGLKALYETELADA RRALDDTARERA KLQIELGKCKAEHDQLLLNYAKKESDLNGAQIKLREYE AALNSKDAALAT ALGDKKSLEGDLEDLKDQIAQLEASLAAAKKQLADET LLKVDLENRCQSL TEDLEFRKSMYEEEINETRRKHETRLVEVDSG Database link: P20700  Run BLAST with  Run BLAST with
Positive control	IHC-P: Human brain tissue. WB: Recombinant human Lamin B1 protein; HeLa cell lysate; Human lung lysate, Pig brain and kidney lysates.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	ab231282 was purified by antigen-specific affinity chromatography followed by Protein A affinity

chromatography.

Clonality

Polyclonal

Isotype

IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab231282** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 66 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

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.

Involvement in 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.

Sequence similarities

Belongs to the intermediate filament family.

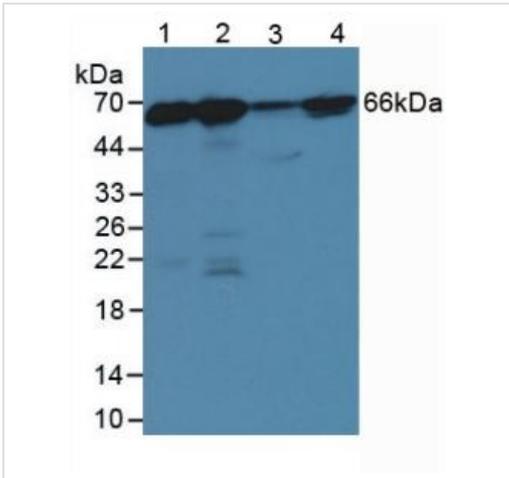
Post-translational modifications

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.

Cellular localization

Nucleus inner membrane.

Images



Western blot - Anti-Lamin B1 antibody (ab231282)

All lanes : Anti-Lamin B1 antibody (ab231282) at 2 µg/ml

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Lane 2 : Human lung lysate

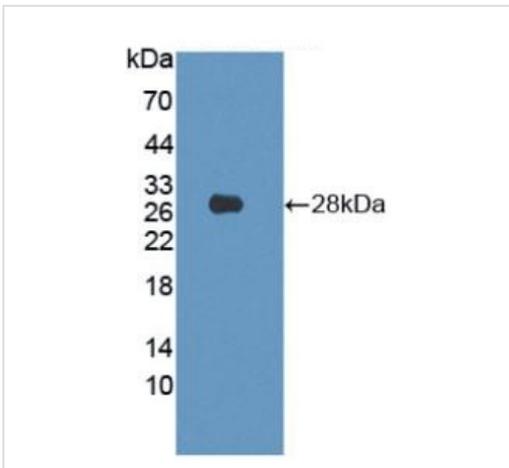
Lane 3 : Pig brain lysate

Lane 4 : Pig kidney lysate

Secondary

All lanes : HRP-Linked Guinea pig Anti-Rabbit Ab at 1/2000 dilution

Predicted band size: 66 kDa



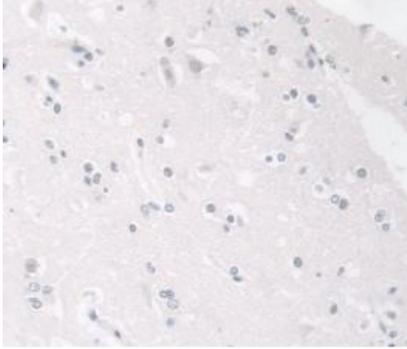
Western blot - Anti-Lamin B1 antibody (ab231282)

Anti-Lamin B1 antibody (ab231282) at 2 µg/ml + Recombinant human Lamin B1 protein.

Secondary

HRP-Linked Guinea pig Anti-Rabbit at 1/2000 dilution

Predicted band size: 66 kDa



Paraffin-embedded human brain tissue stained for Lamin B1 using ab231282 at 20 µg/ml in immunohistochemical analysis. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lamin B1 antibody (ab231282)

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