Datasheet for ABIN2782594

anti-Lamin B2 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	Lamin B2 (LMNB2)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Horse, Cow, Guinea Pig, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Lamin B2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human LMNB2
Sequence:	MATPLPGRAG GPATPLSPTR LSRLQEKEEL RELNDRLAHY IDRVRALELE
Predicted Reactivity:	Cow: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 85%, Rat: 92%
Characteristics:	This is a rabbit polyclonal antibody against LMNB2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Lamin B2 (LMNB2)
Alternative Name:	LMNB2 (LMNB2 Products)

Target Details

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. LMNB2 is one of the two B type proteins, B2.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, B2. This gene is in a head-to-tail orientation with the gene for the translocase of inner mitochondrial membrane 13 homolog gene. Alias Symbols: LAMB2, LMN2, MGC2721 Protein Interaction Partner: UBC, GPRASP2, SUZ12, EED, RNF2, LMNA, PAN2, VCP, UBD, SIRT7, ELAVL1, SVIL, BANF1, PRKCD, LMNB2, TMPO, XRCC5, ORC2, Protein Size: 600
Molecular Weight:	68 kDa
Gene ID:	84823
NCBI Accession:	NM_032737, NP_116126
UniProt:	Q03252
Pathways:	Apoptosis, Caspase Cascade in Apoptosis

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 600 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

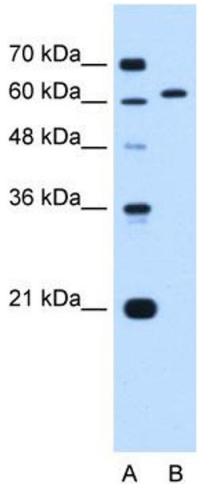
Handling

	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Suzuki, Fujisawa, Ando, Niino, Ohsawa, Shimokata, Ohta: "Alcohol dehydrogenase 2 variant is associated with cerebral infarction and lacunae." in: **Neurology**, Vol. 63, Issue 9, pp. 1711-3, (2004) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-LMNB2 Antibody Titration: 0.2-1 ug/ml Positive Control: Jurkat cell lysate LMNB2 is supported by BioGPS gene expression data to be expressed in Jurkat

LMNB2: Green DAPI: Blue

See IHC 1 Data and Customer Feedback for more Information

Immunohistochemistry

Image 2. Researcher: Dr. David Razafsky, Washington University in Saint Louis Application: IHC Species + Tissue/Cell type: Mouse C2C12 cells Primary antibody dilution: 1:500 Secondary antibody: Goat anti-rabbit-Alexa Fluor 488 Secondary antibody dilution: 1:500