10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Lamin B2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6737b

Specification

Lamin B2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q03252

Lamin B2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 84823

Other Names
Lamin-B2, LMNB2, LMN2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6737b was selected from the C-term region of human Lamin B2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Lamin B2 Antibody (C-term) Blocking Peptide - Protein Information

Name LMNB2

Synonyms LMN2

Function
Lamins are intermediate filament proteins that assemble into a filamentous meshwork, and which constitute the major components of the nuclear lamina, a fibrous layer on the nucleoplasmic side of the inner nuclear membrane (PubMed:33033404). Lamins provide a framework for the nuclear envelope, bridging the nuclear envelope and chromatin, thereby playing an important role in nuclear assembly, chromatin organization, nuclear membrane and telomere dynamics (PubMed:33033404). The structural integrity of the lamina is strictly controlled by the cell cycle, as seen by the disintegration and formation of the nuclear envelope in prophase and telophase, respectively (PubMed:33033404).

Cellular Location
Nucleus lamina.

Lamin B2 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Lamin B2 Antibody (C-term) Blocking Peptide - Images

Lamin B2 Antibody (C-term) Blocking Peptide - 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. Lamin B2 is one of the two B type proteins, B2.

Lamin B2 Antibody (C-term) Blocking Peptide - References

Schumacher,J., FEBS Lett. 580 (26), 6211-6216 (2006)