Human Lamin B1 Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG
Catalog Number: AF8525

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Lamin B1 in direct ELISAs and Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Lamin B1 Met471-Ser582 Accession # P20700
Formulation	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. See Certificate of Analysis for details. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

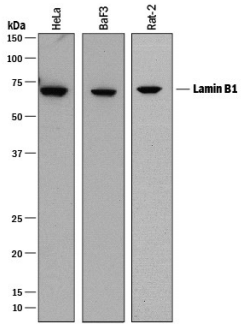
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1:1000 dilution	See Below
Immunocytochemistry	1:150 dilution	See Below
Immunohistochemistry	1:15 dilution	See Below

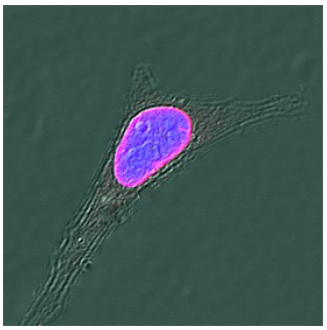
DATA

Western Blot



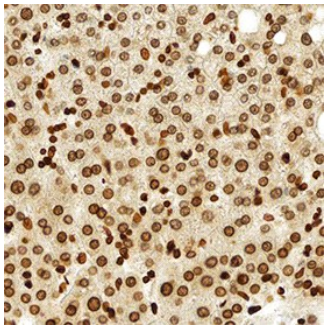
Detection of Human, Mouse, and Rat Lamin B1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, BaF3 mouse pro-B cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1:1000 dilution of Rabbit Anti-Human Lamin B1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8525) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Lamin B1 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Lamin B1 in HeLa Human Cell Line. Lamin B1 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Rabbit Anti-Human Lamin B1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8525) at 1:150 dilution for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to nuclear membrane. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry



Lamin B1 in Human Liver. Lamin B1 was detected in immersion fixed paraffin-embedded sections of human liver using Rabbit Anti-Human Lamin B1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8525) at 1:15 dilution overnight at 4 °C. Tissue was stained using the Anti-Rabbit HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS005) and counterstained with hematoxylin (blue). Specific staining was localized to nuclear membranes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C, as supplied. ● 1 month, 2 to 8 °C under sterile conditions after opening. ● 6 months, -20 to -70 °C under sterile conditions after opening.

BACKGROUND

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. Lamin B1 is a heavily phosphorylated protein, with a calculated molecular weight of 66kDa.

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PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.

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