

For Research Use Only

# Lamin B1 Recombinant antibody, PBS Only



Catalog Number: 80906-1-PBS

Featured Product

## Basic Information

**Catalog Number:**

80906-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3631

**GenBank Accession Number:**

BC012295

**GeneID (NCBI):**

4001

**ENSEMBL Gene ID:**

ENSG00000113368

**UNIPROT ID:**

P20700

**Full Name:**

lamin B1

**Calculated MW:**

66 kDa

**Observed MW:**

66-70 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

5H10

## Applications

**Tested Applications:**

WB, IF, IHC, Indirect ELISA

**Species Specificity:**

Human, mouse, rat

## Background Information

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. 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. Vertebrate lamins consist of two types, A and B. This gene encodes one of the two B type proteins, B1. Expression of uncleavable mutant lamin A or B caused significant delays in the onset of chromatin condensation and nuclear shrinkage during apoptosis (PMID:11953316). This protein is not suitable for samples where the nuclear envelope has been removed.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

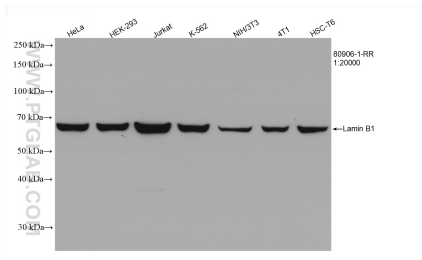
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

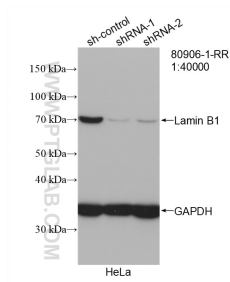
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

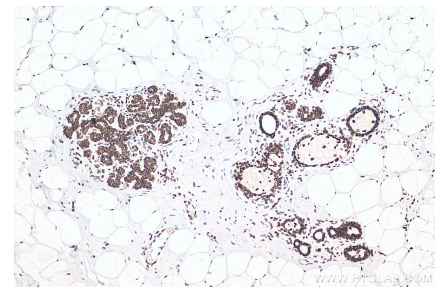
## Selected Validation Data



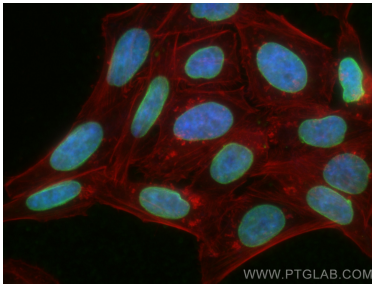
Various lysates were subjected to SDS PAGE followed by western blot with 80906-1-RR (Lamin B1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80906-1-PBS in a different storage buffer formulation.



WB result of Lamin B1 antibody (80906-1-RR; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Lamin B1 transfected HeLa cells. This data was developed using the same antibody clone with 80906-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 80906-1-RR (Lamin B1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80906-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Lamin B1 antibody (80906-1-RR, Clone: 5H10) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 80906-1-PBS in a different storage buffer formulation.