

# Lamin B2 Monoclonal antibody

Catalog Number: 68475-1-Ig

## Basic Information

**Catalog Number:**

68475-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG33296

**GenBank Accession Number:**

BC006551

**GeneID (NCBI):**

84823

**UNIPROT ID:**

Q03252

**Full Name:**

lamin B2

**Calculated MW:**

68 kDa

**Observed MW:**

68 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

2C7B1

**Recommended Dilutions:**

WB 1:5000-1:50000

IF/ICC 1:500-1:2000

## Applications

**Tested Applications:**

WB, IF/ICC, ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

**WB :** A549 cells, LNCaP cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

**IF/ICC :** HepG2 cells,

## Background Information

Lamins are nuclear membrane structural components that are important in structural integrity of the nucleus and may also interact with chromatin (PMID: 33033404). Research studies show that lamin B2 knockout mice exhibit neuronal developmental defects and that both proteins are essential for typical brain development (PMID: 20145110). Mutations in Lamin B2 can result in a susceptibility to developing acquired partial lipodystrophy, a rare disorder characterized by the progressive loss of subcutaneous fat in a bilaterally symmetrical fashion (PMID: 16826530).

## Storage

**Storage:**

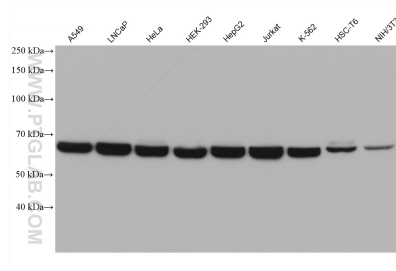
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

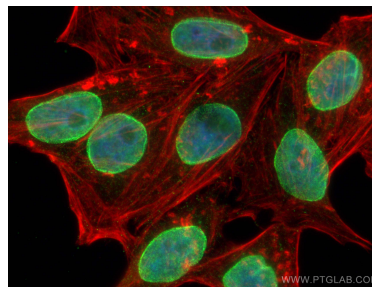
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68475-1-Ig (Lamin B2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Lamin B2 antibody (68475-1-Ig, Clone: 2C7B1) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).