

Datasheet for ABIN7164247
anti-Lamin A/C antibody (AA 385-572)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µL
Target:	Lamin A/C (LMNA)
Binding Specificity:	AA 385-572
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Lamin A/C antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Prelamin-A/C protein (385-572AA)
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Purification:	>95%, Protein G purified

Target Details

Target:	Lamin A/C (LMNA)
Alternative Name:	LMNA (LMNA Products)
Background:	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

Target Details

the nuclear envelope and may also interact with chromatin. Lamin A and C are present in equal amounts in the lamina of mammals. Plays an important role in nuclear assembly, chromatin organization, nuclear membrane and telomere dynamics. Required for normal development of peripheral nervous system and skeletal muscle and for muscle satellite cell proliferation. Required for osteoblastogenesis and bone formation. Also prevents fat infiltration of muscle and bone marrow, helping to maintain the volume and strength of skeletal muscle and bone. Aliases: 70 kDa lamin antibody, Cardiomyopathy dilated 1A (autosomal dominant) antibody, CDCD1 antibody, CDDC antibody, CMD1A antibody, CMT2B1 antibody, EMD2 antibody, FPL antibody, FPLD antibody, FPLD2 antibody, HGPS antibody, IDC antibody, Lamin A antibody, Lamin A/C antibody, Lamin A/C like 1 antibody, Lamin antibody, Lamin C antibody, lamin-a antibody, Lamin-A/C antibody, LDP1 antibody, LFP antibody, LGMD1B antibody, Limb girdle muscular dystrophy 1B (autosomal dominant) antibody, LMN 1 antibody, LMN A antibody, LMN C antibody, LMN1 antibody, LMNA antibody, LMNA_HUMAN antibody, LMNC antibody, LMNL1 antibody, Prelamin A/C antibody, PRO1 antibody, Renal carcinoma antigen NY REN 32 antibody, Renal carcinoma antigen NY-REN-32 antibody, Renal carcinoma antigen NYREN32 antibody

UniProt: [P02545](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [ER-Nucleus Signaling](#), [Protein targeting to Nucleus](#)

Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:200-1:500, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

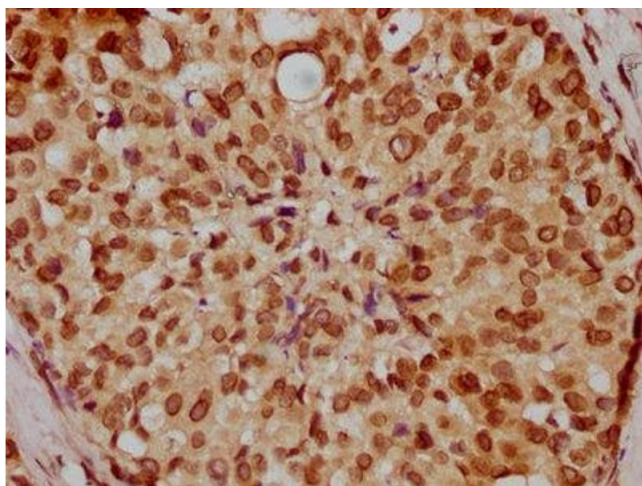
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

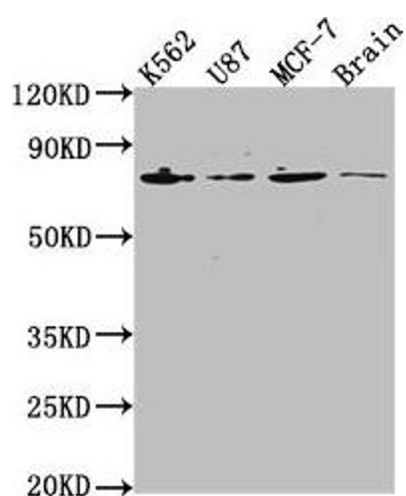
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



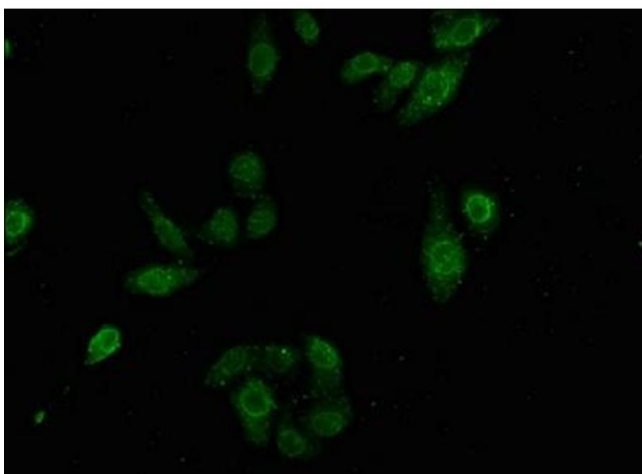
Immunohistochemistry

Image 1. IHC image of ABIN7164247 diluted at 1:200 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: K562 whole cell lysate, U87 whole cell lysate, MCF-7 whole cell lysate, Rat brain tissue. All lanes: LMNA antibody at 1:2000. Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 75, 66, 71, 64, 63, 70 kDa. Observed band size: 75 kDa.



Immunofluorescence

Image 3. Immunofluorescence staining of HepG2 cells with ABIN7164247 at 1:100, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).