Anti-Phospho-Lamin A/C (Ser22) Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P108482

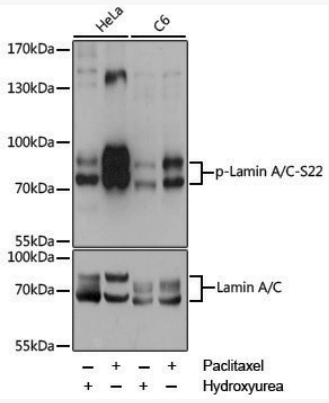
Product Information

Application	WB, IP, ELISA
Reactivity	Human, Rat
Dilution	WB 1:500~1:2,000; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphorylated peptide around S22 of human Lamin A (NP_005563.1).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-Lamin A/C (Ser22) Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

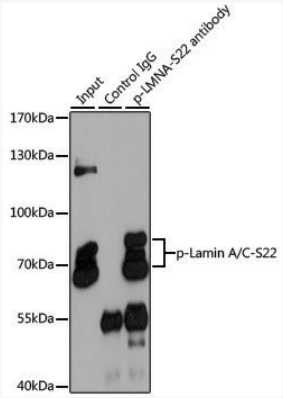
Protein Information

Synonyms	FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMN1; LMNC; MADA; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B; Phospho-Lamin A/C-S22.
Calculated MW	Calculated MW: 74 kDa; Observed MW: 69 kDa, 78 kDa
Uniprot ID	P02545
Gene ID	4000
Background	The protein encoded by this gene is part of the nuclear lamina, 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. Alternative splicing results in multiple transcript variants. Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome.

Validation Images



Western blot analysis of various lysates using Phospho-Lamin A/C-S22 Rabbit pAb (P108482) at 1:2,000 dilution or Lamin A antibody (P100118). HeLa cells were treated by Hydroxyurea (4 mM) at 37°C for 20 hours or treated by Paclitaxel (100 nM/mL) at 37°C for 20 hours. C6 cells were treated by Hydroxyurea (4 mM) at 37°C for 20 hours or treated by Paclitaxel (100 nM) at 37°C for 20 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Enhanced Kit (SQ201).
Exposure time: 1s.



Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg Phospho-Lamin A/C-S22 pAb (P108482). Western blot was performed from the immunoprecipitate using Phospho-Lamin A/C-S22 pAb (P108482) at a dilution of 1:1000. HeLa cells were treated by Paclitaxel (100 nM/mL) at 37°C for 20 hours.