

## 12-4333: Phospho-Lamin A/C (Ser22) (Clone: CF12) rabbit mAb

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	LaminACS22-CF12
<b>Application :</b>	FACS, WB
<b>Reactivity :</b>	Human, Mouse
<b>Conjugate :</b>	Unconjugated
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Prelamin-A/C, 70 kDa lamin, Renal carcinoma antigen NY-REN-32, LMNA, LMN1
<b>Isotype :</b>	Rabbit IgG1k
<b>Immunogen Information :</b>	A synthetic phospho-peptide corresponding to residues surrounding Ser22 of human phospho Lamin A/C

### Description

Lamins are nuclear membrane proteins that are involved with cell cycle control, chromatin organization, and DNA replication (1,2). Upon caspase 6 cleavage, lamin A/C serves as a molecular marker for caspase 6 activity. Lamin A/C is cleaved during cellular apoptosis into a large (41-50 kDa) as well as a small (28 kDa) fragment leading to nuclear dysfunction and cell death (3) Phosphorylation of lamin A/C at Ser32 by MAPK/CDK signals cell cycle progression and mitosis (4,5).

### Product Info

<b>Amount :</b>	20 µl / 200 µl
<b>Content :</b>	1X PBS, 0.02% NaN <sub>3</sub> , 50% Glycerol, 0.1% BSA
<b>Storage condition :</b>	Store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

1 µg/mL - 0.001 µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml, more than 200 western blots)

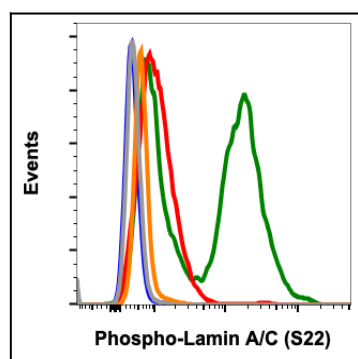


Fig-1: Flow cytometric analysis of HeLa cells, secondary antibody only negative control (blue), or untreated (grey) or treated with nocodazole (orange) using 0.01 µg/mL isotype control or untreated (red) or treated (green) using Phospho-Lamin A/C (Ser22) antibody LaminACS22-CF12 at 0.01 µg/mL.

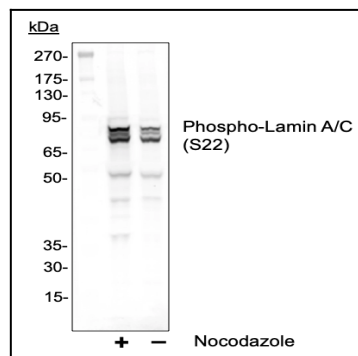


Fig 2 : Western blot analysis of HeLa cell extract untreated or treated with nocodazole using Phospho-Lamin A/C (Ser22) antibody LaminACS22-CF12 at 10 ng/mL.

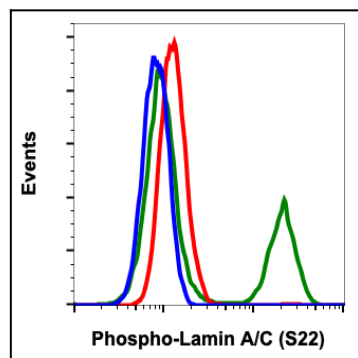


Fig-3: Flow cytometric analysis of NIH 3T3 cells, secondary antibody only negative control (blue), or untreated (red) or treated with nocodazole (green) using Phospho-Lamin A/C (Ser22) antibody LaminACS22-CF12 at 0.05  $\mu$ g/mL.