Phospho-Lamin A/C (Ser22) (CF12) rabbit mAb

www.abwizbio.com
Support: info@abwizbio.com
Order: sales@abwizbio.com

Catalog: #2436

Store at: -20ºC

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry,WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

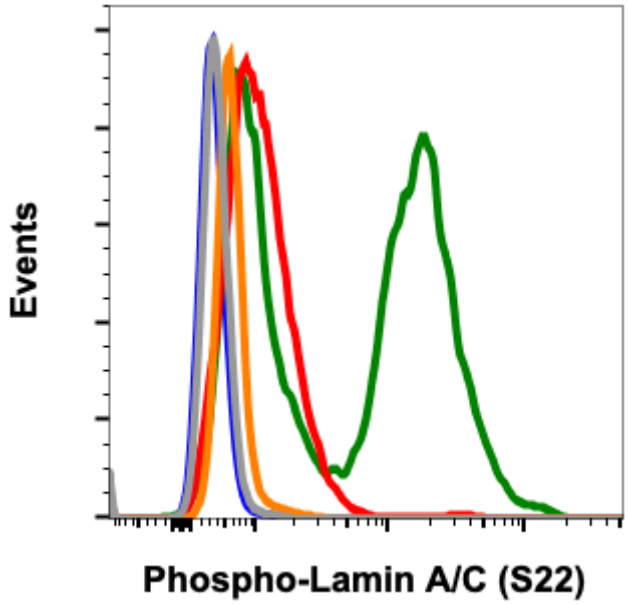
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser22 of human phospho Lamin A/C

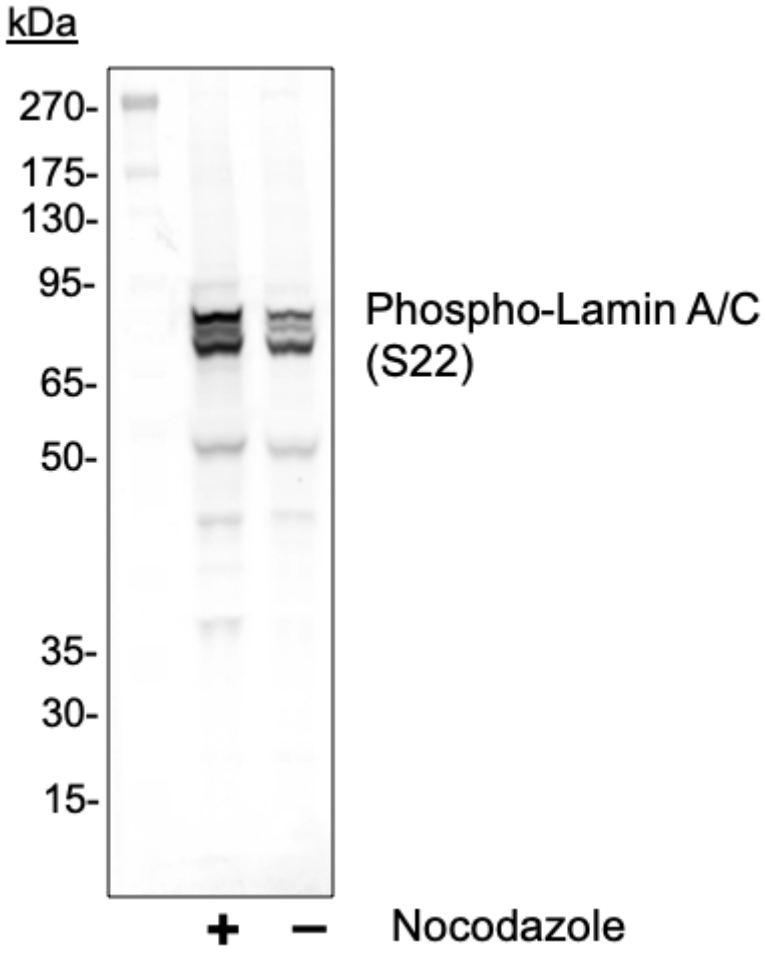
Description: Lamins are nuclear membrane proteins that are involved with cell cycle control, chromatin organization, and DNA replication (1,2). Upon caspase 6 cleavage, lamin A/C serves as a molecular marker for capspase 6 activity. Lamin A/C is cleaved during cellular apoptosis into a large (41-50 kDa) 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).

References:

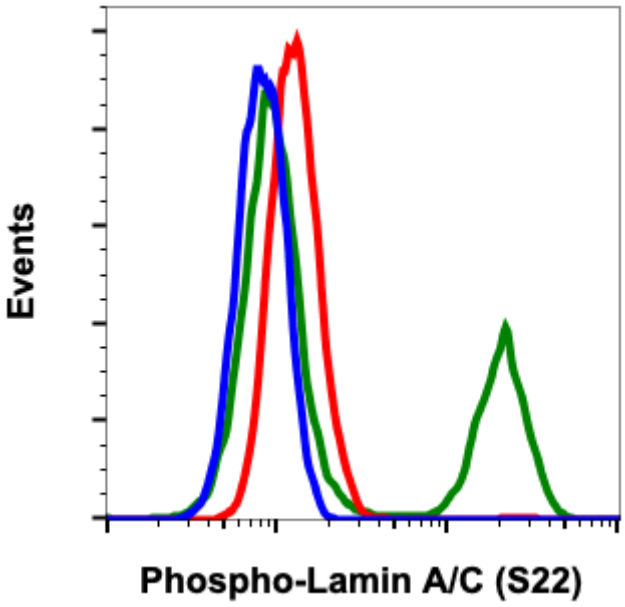
1. Goldberg M, et al., (1999) Crit Rev Eukaryot Gene Expr, 9:285-293.
2. Yabuki M, et al., (1999) Physiol Chem Phys Med NMR, 31: 77-84.
3. Rao L, et al., (1996) J Cell Biol, 135: 1441:1455.
4. Orth K, et al., (1996) J Biol Chem, 271:16443-16446.
5. Nousiainen M, et al., (2006) Proc Natl Acad Sci USA, 103:5391-5396.



Flow cytometric analysis of HeLa cells untreated (red) or treated (green) using Phospho-Lamin A/C (Ser22) antibody LaminACS22-CF12 at 0.01 µg/mL. Cat. #2436 or concentration matched isotope control for untreated (grey) or treated with nocodazole (orange) isotype control Cat. #2141, or negative control (blue).



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. Cat. #2436.



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 µg/mL. Cat. #2436.