

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

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

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGκ

Format: APC

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

Formulation: 1X PBS, 0.09% NaN₃, 0.2% BSA

Preparation: Protein A+G

Reactivity: Human, Mouse

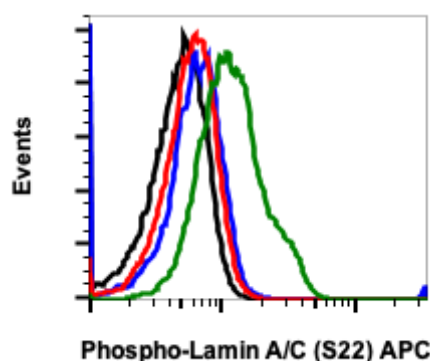
Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

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 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).

References:

1. Goldberg, M, et al., (1999) Crit Rev Eukaryot Gene Expr, 9:285-93.
2. Yabuki, M., et al., (1999) Physiol Chem Phys Med NMR 31: 77-84
3. Rao, L et al., (1996) J Cell Biol 135: 1441:55.
4. Orth K, et al., (1996) J Biol Chem 271:16443-6
5. Nousiainen M, et al., (2006) Proc Natl Acad Sci USA 103:5391-6



Flow cytometric analysis of Hela cells untreated (red) or treated with nocadazole (green) using Phospho-Lamin A/C (Ser22) (CF12) Rabbit mAb (APC Conjugate) LaminACS22-CF12 #2439, or concentration-matched Rabbit (G9) mAb IgG Isotype Control (APC Conjugate) #2144 for cells untreated (black) or treated with nocodazole (blue).