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

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Catalog: #2437 **Store at:** 2-8ºC

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

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

Format: PE

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

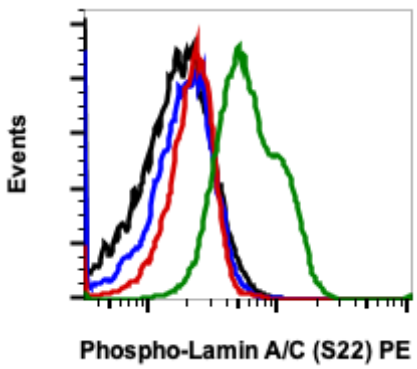
Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

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 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, 9:285-93.
2. Yabuki, M., et ql., (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 nocadozole (green) using Phospho-Lamin A/C (Ser22) (CF12) Rabbit mAb (PE Conjugate) LaminACS22-CF12 #2437, or concentration-matched Rabbit (G9) mAb IgG Isotype Control (PE Conjugate) #2142 for cells untreated (black) or treated with nocodazole (blue).