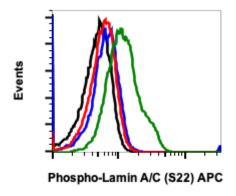
## Phospho-Lamin A/C (Ser22) (CF12) rabbit mAb APC conjugate

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**Catalog:** #2439 **Store at:** 2-8<sup>o</sup>C

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Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk
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 $\mu$ L per million cells or 5 $\mu$ L per 100 $\mu$ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.		
lmmunogen:	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:	<ol> <li>Goldberg, M, et al., (1999) Crit Rev Eukaryot Gene Expr, 9:285-93.</li> <li>Yabuki, M., et ql., (1999) Physiol Chem Phys Med NMR 31: 77-84</li> <li>Rao, L et al., (1996) J Cell Biol 135: 1441:55.</li> <li>Orth K, et al., (1996) J Biol Chem 271:16443-6</li> <li>Nousiainen M, et al., (2006) Proc Natl Acad Sci USA 103:5391-6</li> </ol>		



Flow cytometric analysis of Hela cells untreated (red) or treated with nocadozole (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). ©2025 Abwiz Bio