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Lamin A/C (4C11) Mouse mAb (Alexa Fluor[®] 488 Conjugate)



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Applications: IF-F, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Mouse IgG2a	UniProt ID: #P02545	Entrez-Gene Id: 4000		
Product Usage Information		Application Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			Dilution 1:50 1:50 1:50		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.					
Specificity/Sensit	ivity	Lamin A/C (4C11) Mouse mAb (Alexa Fluor [®] 488 Conjugate) detects endogenous levels of lamin A and C proteins. It also reacts with the larger fragments of lamin A (50 kDa) and lamin C (41 kDa) produced by caspase cleavage during apoptosis. This antibody does not cross-react with lamins B1 and B2.					
Source / Purificat	ification Monoclonal antibody is produced by immunizing animals with a recombinant fragment of human lamin A protein.				nbinant fragment of human		
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Lamin A/C (4C11) Mouse mAb #4777.					
Background		Lamins are nuclear membrane structural components that are important in maintaining normal cell functions such as cell cycle control, DNA replication, and chromatin organization (1-3). Lamin A/C is cleaved by caspase-6 and serves as a marker for caspase-6 activation. During apoptosis, lamin A/C is specifically cleaved into a large (41-50 kDa) and a small (28 kDa) fragment (3,4). The cleavage of lamins results in nuclear dysregulation and cell death (5,6).					
Background Refe	rences	1. Gruenbaum, Y. et al. (2000) <i>J Struct Biol</i> 129, 313-23. 2. Yabuki, M. et al. (1999) <i>Physiol Chem Phys Med NMR</i> 31, 77-84. 3. Goldberg, M. et al. (1999) <i>Crit Rev Eukaryot Gene Expr</i> 9, 285-93. 4. Orth, K. et al. (1996) <i>J Biol Chem</i> 271, 16443-6. 5. Oberhammer, F.A. et al. (1994) <i>J Cell Biol</i> 126, 827-37. 6. Rao, L. et al. (1996) <i>J Cell Biol</i> 135, 1441-55.					
Species Reactivity	/	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Key		IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	(ey	H: Human M: Mouse R: Rat Mk: Monkey					
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