

**Lamin A/C (4C11) Mouse mAb
(Biotinylated)**

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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 74 (Lamin A), 63 (Lamin C)	Source/Isotype: Mouse IgG2a	UniProt ID: #P02545	Entrez-Gene Id: 4000
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Lamin A/C (4C11) Mouse mAb (Biotinylated) detects endogenous levels of lamin A and lamin 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 / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant fragment of human lamin A protein.	
Description	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated 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 References	<ol style="list-style-type: none"> Gruenbaum, Y. et al. (2000) <i>J Struct Biol</i> 129, 313-23. Yabuki, M. et al. (1999) <i>Physiol Chem Phys Med NMR</i> 31, 77-84. Goldberg, M. et al. (1999) <i>Crit Rev Eukaryot Gene Expr</i> 9, 285-93. Orth, K. et al. (1996) <i>J Biol Chem</i> 271, 16443-6. Oberhammer, F.A. et al. (1994) <i>J Cell Biol</i> 126, 827-37. 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).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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