کې Lamin A/C (4C11) Mouse mAb





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Applications: W, W-S, IP, IHC-P, IF-F, IF-IC, FC-FP	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
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitatio Immunohistochemis Immunofluorescenc Flow Cytometry (Fixe	stry (Paraffin) e (Frozen) e (Immunocytochemi	stry)	1:2 1:1 1:5 1:1 1:5 1:5 1:5	ution 000 0 - 1:50 0 0 - 1:400 0 - 1:200 0 - 1:200 0 - 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		For a carrier free (BSA and azide free) version of this product see product #34698. Lamin A/C (4C11) Mouse mAb 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.				
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		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 Reactiv	vity	Species reactivity is o	determined by testing	in at least one approve	d 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.				n 5% w/v nonfat
Applications Key		W: Western Blotting W-S: Simple Western [™] IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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