Lamin A/C (4C11) Mouse mAb



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Applications: WB, 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	Ap	Application				Dilution	
	We	estern Blotting			1:2	000	
	Imi	munoprecipitation			1:5	0	
	Imi	Immunohistochemistry (Paraffin)				1:100 - 1:400	
	Imi	Immunofluorescence (Frozen)			1:50 - 1:200		
	Imi	Immunofluorescence (Immunocytochemistry)			1:50 - 1:200		
	Flo	Flow Cytometry (Fixed/Permeabilized)				1:50 - 1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	a carrier free (BSA	and azide free) ver	sion of this product se	e product #34698.		
Specificity / Sensitivity Lamin A/C (4C11) Mouse mAb detects endogenous levels of lam with the larger fragments of lamin A (50 kDa) and lamin C (41 kD apoptosis. This antibody does not cross-react with lamins B1 and				Da) produced by caspa			
Source / Purification	Monoclonal antibody is produced by immunizing animals with a reprotein.				recombinant fragment	of human lamin A	
Background	fund clea spe	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 Refer	2. Y 3. G 4. C 5. C	 Gruenbaum, Y. et al. (2000) J Struct Biol 129, 313-23. Yabuki, M. et al. (1999) Physiol Chem Phys Med NMR 31, 77-84. Goldberg, M. et al. (1999) Crit Rev Eukaryot Gene Expr 9, 285-93. Orth, K. et al. (1996) J Biol Chem 271, 16443-6. Oberhammer, F.A. et al. (1994) J Cell Biol 126, 827-37. Rao, L. et al. (1996) J Cell Biol 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

WB: Western Blotting 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 Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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