

Lamin A (133A2) Mouse mAb



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Applications: W, IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 74	Source/Isotype: Mouse IgG3	UniProt ID: #P02545	Entrez-Gene Id: 4000
Product Usage Information		Application			Dilution	
		Western Blotting			1:1000	
		Immunohistochemistry (Paraffin)			1:500 - 1:2000	
		Immunofluorescence (Immunocytochemistry)			1:12800 - 1:25600	
Storage		Supplied at 1 mg/mL in PBS containing 0.09% sodium azide. Store at -20°C. This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles. A slight precipitate may be present, but will not interfere with antibody performance. This product is stable for 36 months when stored at -20C.				
Specificity/Sensitivity		Lamin A (133A2) Mouse mAb recognizes endogenous levels of total lamin A protein. It also reacts with large fragments of lamin A (50 kDa) produced by caspase cleavage during apoptosis. This antibody does not cross-react with lamin C.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus 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 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 BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence

(Immunocytochemistry)

Cross-Reactivity Key H: Human

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