## 2036

## Cleaved Lamin A (Small Subunit) (30H5) Mouse mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IF-IC	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	<b>Source/Isotype:</b> Mouse IgG1	UniProt ID: #P02545	Entrez-Gene Id: 4000
Product Usage Information	2	<b>Application</b> Western Blotting Immunofluorescence	e (Immunocytochen	nistry)		<b>Dilution</b> 1:1000 1:100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Cleaved Lamin A (Small Subunit) (30H5) Mouse mAb detects endogenous levels of the small fragment of lamin A (and lamin C) resulting from cleavage at aspartic acid 230. The antibody does not cross-react with full length lamin A or C.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues surrounding Asp230 of human lamin A.				
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> <li>Gruenbaum, Y. et al. (2000) J Struct Biol 129, 313-23.</li> <li>Yabuki, M. et al. (1999) Physiol Chem Phys Med NMR 31, 77-84.</li> <li>Goldberg, M. et al. (1999) Crit Rev Eukaryot Gene Expr 9, 285-93.</li> <li>Orth, K. et al. (1996) J Biol Chem 271, 16443-6.</li> <li>Oberhammer, F.A. et al. (1994) J Cell Biol 126, 827-37.</li> <li>Rao, L. et al. (1996) J Cell Biol 135, 1441-55.</li> </ol>				
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 i dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				in 5% w/v nonfat
Applications Key		W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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