035

## Cleaved Lamin A (Small Subunit) Antibody



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

Applications: W, IHC-P, IF-IC	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P02545	Entrez-Gene Id: 4000		
Product Usage Information		<b>Application</b> Western Blotting Immunohistochemist Immunofluorescence	· · · · · · · · · · · · · · · · · · ·	istry)		<b>Dilution</b> 1:1000 1:100 1:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Cleaved Lamin A (Small Subunit) Antibody detects the small fragment of lamin A (and lamin C) resulting from cleavage at aspartic acid 230 by caspase-6. The antibody does not cross-react with full length lamin A or lamin C.						
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues surrounding Asp230 in human lamin A. Antibodies are purified by protein A and peptide affinity chromatography.						
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 Ro	eferences		99) Physiol Chem P. (1999) Crit Rev Euka ) J Biol Chem 271, 10 et al. (1994) J Cell Bio	<i>hys Med NMR</i> 31, 77-84. <i>ryot Gene Expr</i> 9, 285-9: 5443-6. b/ 126, 827-37.				
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 K	ey	<b>W:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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