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Lamin A/C Antibody

Store at -20C
#2032

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

Applications: W, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 28, 70	Source/Isotype: Rabbit	UniProt ID: #P02545	Entrez-Gene Id: 4000
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Product Usage Information

Application

Western Blotting
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:300 - 1:1200

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/Sensitivity

Lamin A/C Antibody detects endogenous levels of total full length lamin A (and lamin C) (70 kDa), as well as the small fragment of lamin A (and lamin C) resulting from cleavage at aspartic acid 230 (28 kDa).

Species predicted to react based on 100% sequence homology

Bovine

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp230 of 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 References

- 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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