

Emerin (L12) Antibody



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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Rabbit	UniProt ID: #P50402	Entrez-Gene Id: 2010
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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

Emerin (L12) Antibody detects endogenous levels of total Emerin protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu12 of human Emerin. Antibodies are purified by peptide affinity chromatography.

Background

Emerin is a broadly expressed integral protein of the nuclear inner membrane (1). It contains a LEM domain and binds to several nuclear proteins, such as BAF (barrier-to-autointegration factor) and A- and B-type lamins, which are important in nuclear functions (2-5). Emerin may regulate gene expression through binding to other transcriptional regulators (6,7). Emerin binds to β -catenin and inhibits its nuclear accumulation (8). Recent studies demonstrate that emerin is required for HIV-1 infectivity (9). Mutations in the gene encoding emerin (*EMD*) are a major cause of Emery-Dreifuss muscular dystrophy (EDMD), a disorder characterized by progressive skeletal muscle weakening (10).

Background References

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3. Clements, L. et al. (2000) *Biochem. Biophys. Res. Commun.* 267, 709-714.
4. Lee, K.K. et al. (2001) *J. Cell Sci.* 114, 4567-4573.
5. Bengtsson, L. and Wilson, K.L. (2006) *Mol. Biol. Cell* 17, 1154-1163.
6. Holaska, J.M. et al. (2003) *J. Biol. Chem.* 278, 6969-6975.
7. Haraguchi, T. et al. (2004) *Eur. J. Biochem.* 271, 1035-1045.
8. Markiewicz, E. et al. (2006) *EMBO J.* 25, 3275-3285.
9. Jacque, J.M. and Stevenson, M. (2006) *Nature* 441, 641-645.
10. Holaska, J.M. and Wilson, K.L. (2006) *Anat. Rec. A Discov. Mol. Cell. Evol. Biol.* 288, 676-680.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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