

#2659 Store at -20°C

Emerin (L12) Antibody



Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	30	Rabbit	#P50402	2010

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. Jacques, 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

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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