

LSm2 (D9X6C) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	11	Rabbit IgG	#Q9Y333	57819

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

LSm2 (D9X6C) Rabbit mAb recognizes endogenous levels of total LSm2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly64 of human LSm2 protein.

Background

LSm proteins are members of an ancient family of RNA binding proteins that function in RNA metabolism (1,2). Two LSm complexes or rings have been identified based on protein composition: LSm1-7 and LSm2-8 (1). The cytoplasmic LSm1-7 complex is involved in mRNA degradation (3) while the LSm2-8 ring is required for pre-tRNA and rRNA maturation (4,5) and regulation of pre-mRNA splicing through its association with U6 snRNA (6). Recent studies show that LSm2-8 complex functions in the biogenesis of telomerase RNA (1).

Background References

1. Tang, W. et al. (2012) *Nature* 484, 260-4.
2. Wilusz, C.J. and Wilusz, J. (2005) *Nat Struct Mol Biol* 12, 1031-6.
3. Tharun, S. et al. (2000) *Nature* 404, 515-8.
4. Kufel, J. et al. (2002) *Mol Cell Biol* 22, 5248-56.
5. Kufel, J. et al. (2003) *J Biol Chem* 278, 2147-56.
6. Mayes, A.E. et al. (1999) *EMBO J* 18, 4321-31.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

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

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