

Store at -20C  
#8498**LSm2 Antibody**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	11	Rabbit	#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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

LSm2 Antibody recognizes endogenous levels of total LSm2 protein.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val77 of human LSm2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

**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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