

AM50011PU-S**Monoclonal Antibody to LSM2 - Purified**

Alternate names:	C6orf28, G7B, Small nuclear ribonuclear protein D homolog, U6 snRNA-associated Sm-like protein LSm2, snRNP core Sm-like protein Sm-x5
Quantity:	50 µl
Concentration:	1.0 mg/ml
Background:	LSM2 is a member of the LSm family of RNA-binding proteins. Component of LSm protein complexes, which are involved in RNA processing and may function in a chaperone-like manner. Component of the cytoplasmic complex which is thought to be involved in mRNA degradation by activating the decapping step. Component of the nuclear LSM2 complex, which is involved in splicing of nuclear mRNAs. LSM2 associates with multiple snRNP complexes containing the U6 snRNA. It binds directly to the U6 snRNA and plays a role in the biogenesis and stability of the U6 snRNP and U4/U6 snRNP complexes. It probably also is involved in degradation of nuclear pre-mRNA by targeting them for decapping. LSM2 binds specifically to the 3'-terminal U-tract of U6 snRNA. LSM2-LSM8 probably is involved in processing of pre-tRNAs, pre-rRNAs and U3 snoRNA.
Uniprot ID:	Q9Y333
NCBI:	NP_067000
GeneID:	57819
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	AT2B2
Immunogen:	Recombinant human LSm2 (1-95aa) purified from E. coli
Format:	State: Liquid purified Ig fraction Purification: Protein-G affinity chromatography Buffer System: PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol
Applications:	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1,000~1:3,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Species: Human Other species not tested.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Luhtala N, Parker R. *Nucleic Acids Res.* 2009 Sep;37(16):5529-36. Fernandez CF, Pannone BK, Chen X, Fuchs G, Wolin SL. *Mol Biol Cell.* 2004 Jun;15(6):2842-52. Achsel T., et al. (1999) *EMBO J.* 18:5789-5802

Pictures:

The cell lysates (30ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human LSM2 antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

