

Product Name: KD-Validated LSM1 Mouse Monoclonal Antibody**Catalog #: KVAb00287**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 15.2kDa

Antigen Information

Gene Name	LSM1
Alternative Names	LSM1; LSM1 Homolog, MRNA Degradation Associated; CASM; YJL124C; U6 SnRNA-Associated Sm-Like Protein LSM1; LSM1, U6 Small Nuclear RNA Associated; Small Nuclear Ribonuclear CaSm; Cancer-Associated Sm Protein; LSM1 Homolog, U6 Small Nuclear RNA Associated (S. Cerevisiae); LSM1-Like Protein U6 Small Nuclear RNA Associated; LSM1 Homolog, U6 Small Nuclear RNA Associated; Cancer-Associated Sm-Like Protein; LSM1 MRNA Degradation Associated; Cancer-Associated Sm-Like
Gene ID	27257.0
SwissProt ID	O15116
Immunogen	Recombinant protein of human LSM1

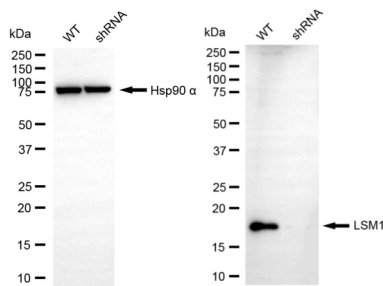
Background

This gene encodes a member of the LS_m family of RNA-binding proteins. LS_m proteins form stable heteromers that bind specifically to the 3'-terminal oligo(U) tract of U6 snRNA and may play a role in pre-mRNA splicing by mediating U4/U6 snRNP formation. Increased expression of this gene may play a role in cellular transformation and the progression of several malignancies including lung cancer, mesothelioma and breast cancer. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, Nov 2011]

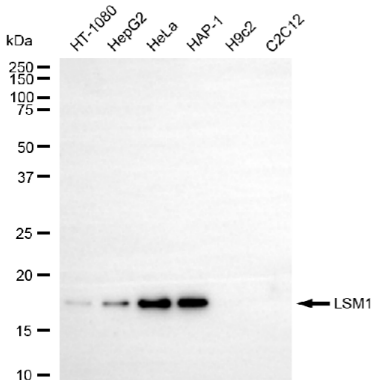
Research Area

Tags & Cell Markers, Epigenetics and Nuclear Signaling

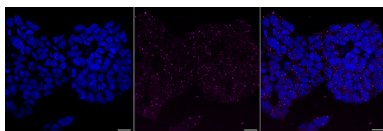
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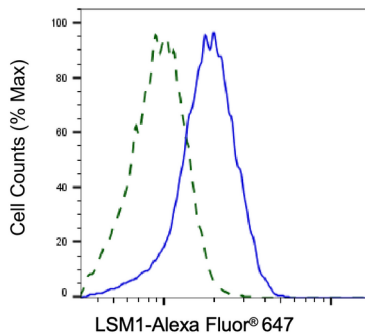
Western blotting analysis using LSM1 antibody (KVA00287). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with LSM1 antibody (KVA00287, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with LSM1 antibody (KVA00287, 1:1,000). Nuclei were stained blue with DAPI; LSM1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Immunocytochemical staining of HAP-1 cells with LSM1 antibody (KVA00287, 1:1,000). Nuclei were stained blue with DAPI; LSM1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of LSM1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with LSM1 antibody (KVA00287, 1:2,000) and analyzed using BD flow cytometer.