

Rabbit LSM2 Polyclonal Antibody | anti-LSM2 antibody

Anti-LSM2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19316	Rabbit	Human, Mouse, Rat, Monkey	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

LSM2; Polyclonal Antibody; Anti-LSM2 Antibody; C6orf28; G7B; U6 snRNA-associated Sm-like protein LSm2; Protein G7b; Small nuclear ribonuclear protein D homolog; snRNP core Sm-like protein Sm-x5; LSM2 homolog; U6 small nuclear RNA and mRNA degradation associated; anti-LSM2 antibody

PRODUCT SPECIFICATIONS

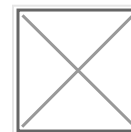
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for LSM2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-LSM2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.1-0.25ug/ml Human, Mouse, Rat, Monkey IHC-P: 1-2ug/ml Human, Mouse, Rat ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Human
Immunogen	A synthetic peptide corresponding to a sequence of human LSM2 (DTQLLQDAARKEALQKQ).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IF (Immunofluorescence)

Figure 15. IF analysis of LSM2 using anti-LSM2 antibody (AAA19316). LSM2 was detected in immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-LSM2 Antibody (AAA19316) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



FCM (Flow Cytometry)

Figure 14. Flow Cytometry analysis of K562 cells using anti-LSM2 antibody (AAA19316). Overlay histogram showing K562 cells stained with AAA19316 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LSM2 Antibody (AAA19316, 1µg/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



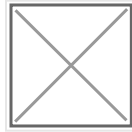
IHC (Immunohistochemistry)

Figure 13. IHC analysis of LSM2 using anti-LSM2 antibody (AAA19316). LSM2 was detected in paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-LSM2 Antibody (AAA19316) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



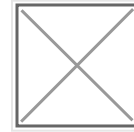
IHC (Immunohistochemistry)

Figure 12. IHC analysis of LSM2 using anti-LSM2 antibody (AAA19316). LSM2 was detected in paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-LSM2 Antibody (AAA19316) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 11. IHC analysis of LSM2 using anti-LSM2 antibody (AAA19316). LSM2 was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-LSM2 Antibody (AAA19316) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 10. IHC analysis of LSM2 using anti-LSM2 antibody (AAA19316). LSM2 was detected in paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-LSM2 Antibody (AAA19316) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

ADDITIONAL INFORMATION

Related Product Information for anti-LSM2 antibody	U6 snRNA-associated Sm-like protein LSM2 is a protein that in humans is encoded by the LSM2 gene. This gene encodes a member of the LSm family of RNA-binding proteins. LSm 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. Pseudogenes of this gene are located on the short arm of chromosomes 6 and 19.
References	<ol style="list-style-type: none">Achsel, T., Brahms, H., Kastner, B., Bachi, A., Wilm, M., Luhrmann, R. A doughnut-shaped heteromer of human Sm-like proteins binds to the 3-prime end of U6 snRNA, thereby facilitating U4/U6 duplex formation in vitro. EMBO J. 18: 5789-5802, 1999.Ingelfinger, D., Arndt-Jovin, D. J., Luhrmann, R., Achsel, T. The human LSM1-7 proteins colocalize with the mRNA-degrading enzymes Dcp1/2 and Xrn1 in distinct cytoplasmic foci. RNA 8: 1489-1501, 2002.Salgado-Garrido, J., Bragado-Nilsson, E., Kandels-Lewis, S., Seraphin, B. Sm and Sm-like proteins assemble in two related complexes of deep evolutionary origin. EMBO J. 18: 3451-3462, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4529895
NCBI GeneID	57819
UniProt Accession #	Q9Y333 ; Q6FGG1
Molecular Weight	10,835 Da
NCBI Official Full Name	snRNP
NCBI Official Synonym Full Names	LSM2 homolog, U6 small nuclear RNA associated (S. cerevisiae)
NCBI Official Symbol	LSM2
NCBI Official Synonym Symbols	G7B; snRNP; C6orf28; YBL026W
NCBI Protein Information	U6 snRNA-associated Sm-like protein LSM2; protein G7b; snRNP core Sm-like protein Sm-x5; small nuclear ribonuclear protein D homolog
UniProt Protein Name	U6 snRNA-associated Sm-like protein LSM2
UniProt Gene Name	LSM2

UniProt Synonym Gene Names	C6orf28; G7B
UniProt Entry Name	LSM2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lsm2-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19316>