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## **Human LSM2 antibody**

Catalog Number: ATGA0226

## **PRODUCT INFORMATION**

## Catalog number

ATGA0226

#### Clone No.

1G7

## **Product type**

Monoclonal Antibody

#### UnitProt No.

Q9Y333

#### **NCBI Accession No.**

NP 067000

#### **Alternative Names**

U6 snRNA-associated Sm-like protein LSm2, Protein G7b, Small nuclear ribonuclear protein D homolog, snRNP core Sm-like protein Sm-x5, C6orf28, YBL026W

## **PRODUCT SPECIFICATION**

### **Antibody Host**

Mouse

## **Reacts With**

Human

#### **Concentration**

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

## **Immunogen**

Recombinant human LSm2 (1-95aa) purified from E. coli

## Isotype

IgG2a kappa

### **Purification Note**

By protein-G affinity chromatography

## **Application**

ELISA, WB

#### Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

#### **Description**

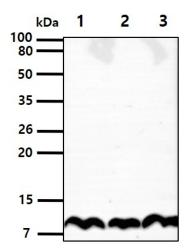
LSM2 is a member of the LSm family of RNA-binding proteins. Component of LSm protein complexes, which are involved in RNA processing and may function in a chaperone-like manner. Component of the cytoplasmic complex which is thought to be involved in mRNA degradation by activating the decapping step. 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 degradation of nuclear premRNA 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.

#### **General References**

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. 2004Jun 15(6):2842-52. Achsel T., et al. (1999) EMBO J. 18:5789-5802.

## **DATA**

### Western blot analysis (WB)



The cell lysates (20ug) 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.

Lane 1.: MCF7 cell lysate Lane 2.: HeLa cell lysate Lane 3.: 293T cell lysate

