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LSM11 Rabbit pAb

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Catalog # AP94139

Product Information

Application	WB
Primary Accession	P83369
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39500
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LSM11
Epitope Specificity	261-360/360
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nuclear
SIMILARITY	Belongs to the snRNP Sm proteins family.
SUBUNIT	Component of the heptameric ring U7 snRNP complex, or U7 Sm protein core complex, at least composed of LSM10, LSM11, SNRPB, SNRPD3, SNRPE, SNRPF, SNRPG and U7 snRNA. Formation of the U7 snRNP is an ATP-dependent process mediated by a specialized SMN complex containing at least the Sm protein core complex and additionally, the U7-specific LSM10 and LSM11 proteins. Interacts with LSM10, SMN, SNRPB and ZNF473. Identified in a histone pre-mRNA complex, at least composed of ERI1, LSM11, SLBP, SNRPB, SYNCRIP and YBX1 By similarity. Interacts (via the Sm domains) with CLNS1A. Interacts with PRMT5 and WDR77
Post-translational modifications	Not methylated
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	LSM11 is a 39.5 kDa protein that is a component of a specialized SMN complex also containing Lsm10. Lsm11 not only specifies the assembly of the U7 Sm core but also fulfills an important role in U7 snRNP-mediated histone mRNA processing.

Additional Information

Gene ID	134353
Other Names	U7 snRNA-associated Sm-like protein LSm11, LSM11 {ECO:0000303|PubMed:12975319, ECO:0000312|HGNC:HGNC:30860}
Dilution	WB=1:500-2000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	LSM11 {ECO:0000303|PubMed:12975319, ECO:0000312|HGNC:HGNC:30860}
Function	Component of the U7 snRNP complex that is involved in the histone 3'-end pre-mRNA processing (PubMed:11574479, PubMed:16914750, PubMed:33230297). Increases U7 snRNA levels but not histone 3'-end pre-mRNA processing activity, when overexpressed (PubMed:11574479, PubMed:16914750). Required for cell cycle progression from G1 to S phases (By similarity). Binds specifically to the Sm-binding site of U7 snRNA (PubMed:11574479, PubMed:16914750).
Cellular Location	Nucleus.

Background

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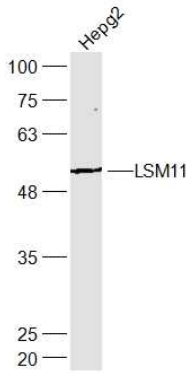
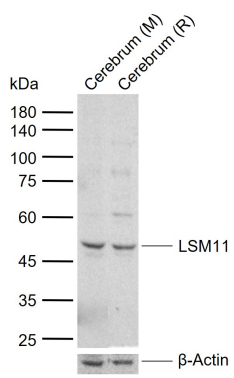
Images



Sample: Hepg2(Human) Cell Lysate at 30 ug Primary: Anti-LSM11 (AP94139) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 53 kD Observed band size: 53 kD



Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Rat Cerebrum tissue lysates Primary: Anti-LSM11 (AP94139) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 53 kDa Observed band size: 50 kDa