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LSM14A Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14733b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8ND56
Other Accession	Q8K2F8, Q3MHF8, NP_001107565.1, NP_056393.2
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34917
Calculated MW	50530
Antigen Region	311-340

Additional Information

Gene ID	26065
Other Names	Protein LSM14 homolog A, Protein FAM61A, Protein SCD6 homolog, Putative alpha-synuclein-binding protein, AlphaSNBP, RNA-associated protein 55A, hRAP55, hRAP55A, LSM14A, C19orf13, FAM61A, RAP55, RAP55A
Target/Specificity	This LSM14A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 311-340 amino acids from the C-terminal region of human LSM14A.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LSM14A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LSM14A {ECO:0000303|PubMed:26339800, ECO:0000312|HGNC:HGNC:24489}

Function	Essential for formation of P-bodies, cytoplasmic structures that provide storage sites for translationally inactive mRNAs and protect them from degradation (PubMed:16484376, PubMed:17074753, PubMed:29510985). Acts as a repressor of mRNA translation (PubMed:29510985). May play a role in mitotic spindle assembly (PubMed:26339800).
Cellular Location	Cytoplasm, P-body. Cytoplasm, cytoskeleton, spindle. Cytoplasm, Stress granule

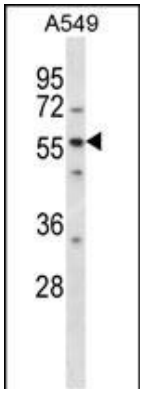
Background

Sm-like proteins were identified in a variety of organisms based on sequence homology with the Sm protein family (see SNRPD2; 601061). Sm-like proteins contain the Sm sequence motif, which consists of 2 regions separated by a linker of variable length that folds as a loop. The Sm-like proteins are thought to form a stable heteromer present in tri-snRNP particles, which are important for pre-mRNA splicing.

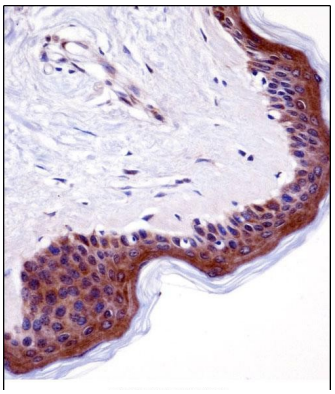
References

Marnef, A., et al. Int. J. Biochem. Cell Biol. 41(5):977-981(2009)
Tanaka, K.J., et al. J. Biol. Chem. 281(52):40096-40106(2006)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Yang, W.H., et al. RNA 12(4):547-554(2006)

Images



LSM14A Antibody (C-term) (Cat. #AP14733b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the LSM14A antibody detected the LSM14A protein (arrow).



LSM14A Antibody (C-term) (AP14733b)immunohistochemistry analysis in formalin fixed and paraffin embedded human skin tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of LSM14A Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.