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FAM61B Rabbit pAb

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Catalog # AP54333

Product Information

Primary Accession	Q9BX40
Reactivity	Rat
Predicted	Human, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42071
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAM61B
Epitope Specificity	251-350/385
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Sm and Sm-like (LSm) proteins form donut-shaped, ubiquitously expressed heptameric complexes that are involved in various steps of RNA metabolism, including RNA-protein interactions and structural changes that are required during ribosomal subunit assembly. LSm14B, also known as C20orf40, FAM61B or LSM13, is a 385 amino acid protein that exists as multiple alternatively spliced isoforms and may play a role in RNA-related events. The gene encoding LSm14B maps to human chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome.

Additional Information

Gene ID	149986
Other Names	Protein LSM14 homolog B, RNA-associated protein 55B, hRAP55B, LSM14B (HGNC:15887)
Dilution	Flow-Cyt=1 □g/Test
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	LSM14B (HGNC:15887)
Function	mRNA-binding protein essential for female fertility, oocyte meiotic maturation and the assembly of MARDO (mitochondria-associated ribonucleoprotein domain), a membraneless compartment that stores maternal mRNAs in oocytes. Ensures the proper accumulation and clearance of mRNAs essential for oocyte meiotic maturation and the normal progression from Meiosis I to Meiosis II in oocytes. Promotes the translation of some oogenesis-related mRNAs. Regulates the expression and/or localization of some key P-body proteins in oocytes. Essential for the assembly of the primordial follicle in the ovary.
Cellular Location	Cytoplasm, Cytoplasmic ribonucleoprotein granule {ECO:0000250|UniProtKB:Q8CGC4}. Note=Localizes to MARDO (mitochondria-associated ribonucleoprotein domain), a mitochondria-associated membraneless compartment that stores mRNAs in oocytes {ECO:0000250|UniProtKB:Q8CGC4}

Background

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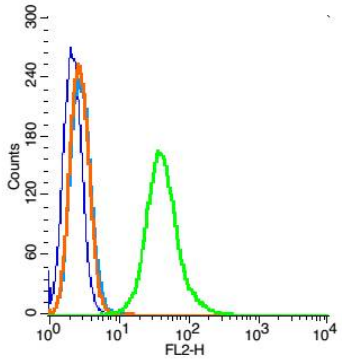
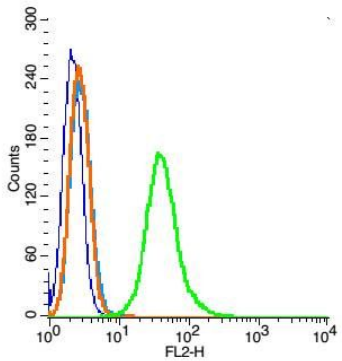
Images



Blank control: RSC96(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice..
Isotype Control Antibody: Rabbit IgG(orange) ;
Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue),
Dilution: 1:200 in 1 X PBS containing 0.5% BSA ;
Primary Antibody Dilution: 1 µg in 100 µL1X PBS containing 0.5% BSA(green).



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