10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FUSIP1 Rabbit pAb

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Catalog # AP55099

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O75494
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31301
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FUSIP1
Epitope Specificity	151-250/262
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	Nucleus speckle. Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FUSIP1 is a member of the Serine/Arginine (SR) family of splicing factors. Members of the SR family all contain one or more RNA recognition motifs (RRM) and an SR-rich domain. SR factors are not only essential for constitutive splicing but also regulate splicing in a concentration-dependent manner by influencing the selection of alternative splice sites. Expressed in a variety of tissues with low expression in kidney, liver and heart, FUSIP1 localizes to the cytoplasm and nuclear speckles. In its dephosphorylated form (occurring during M phase of the cell cycle), FUSIP1 functions as a potent general repressor of pre-mRNA splicing and can interact with U1 SnRNP 70. In its phosphorylated form, FUSIP1 interacts with Tra-2∫ and, together, they may cooperate in the regulation of splicing. Four isoforms exist for FUSIP1. In neurons, FUSIP1 isoforms may act to either positively or negatively regulate alternative splicing.

Additional Information

Gene ID	10772
Other Names	Serine/arginine-rich splicing factor 10, 40 kDa SR-repressor protein, SRrp40, FUS-interacting serine-arginine-rich protein 1, Splicing factor SRp38, Splicing factor, arginine/serine-rich 13A, TLS-associated protein with Ser-Arg repeats, TASR, TLS-associated protein with SR repeats, TLS-associated serine-arginine protein, TLS-associated SR protein, SRSF10, FUSIP1, FUSIP2, SFRS13A, TASR
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

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.

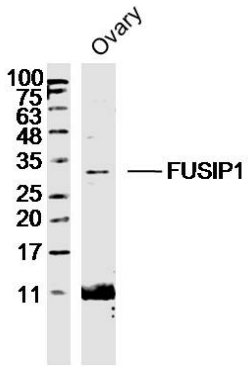
Protein Information

Name	SRSF10
Synonyms	FUSIP1, FUSIP2, SFRS13A, TASR
Function	Splicing factor that in its dephosphorylated form acts as a general repressor of pre-mRNA splicing (PubMed:11684676, PubMed:12419250, PubMed:14765198). Seems to interfere with the U1 snRNP 5'-splice recognition of SNRNP70 (PubMed:14765198). Required for splicing repression in M-phase cells and after heat shock (PubMed:14765198). Also acts as a splicing factor that specifically promotes exon skipping during alternative splicing (PubMed:26876937). Interaction with YTHDC1, a RNA-binding protein that recognizes and binds N6-methyladenosine (m6A)-containing RNAs, prevents SRSF10 from binding to its mRNA-binding sites close to m6A-containing regions, leading to inhibit exon skipping during alternative splicing (PubMed:26876937). May be involved in regulation of alternative splicing in neurons, with isoform 1 acting as a positive and isoform 3 as a negative regulator (PubMed:12419250).
Cellular Location	Nucleus speckle. Cytoplasm
Tissue Location	Widely expressed.

Background

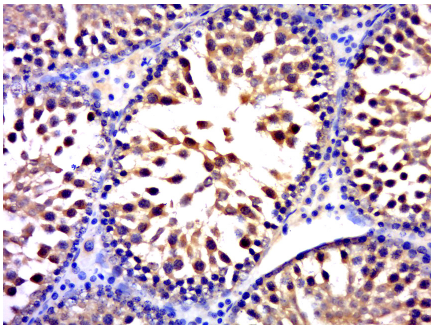
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Images



Sample: Ovary (Mouse) Lysate at 40 ug
Primary: Anti- FUSIP1 (AP55099) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 31kD
Observed band size: 31kD

Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FUSIP1) Polyclonal Antibody, Unconjugated (AP55099) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20



minutes and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.