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SFRS3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16268c

Specification

SFRS3 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P84103
Other Accession	P84104, Q3SZR8, NP_003008.1
Reactivity	**Human**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**19330**
Antigen Region	**82-110**

SFRS3 Antibody (Center) - Additional Information

Gene ID 6428

Other Names
Serine/arginine-rich splicing factor 3, Pre-mRNA-splicing factor SRP20, Splicing factor, arginine/serine-rich 3, SRSF3, SFRS3, SRP20

Target/Specificity
This SFRS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 82-110 amino acids from the Central region of human SFRS3.

Dilution
WB~~1:1000
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
SFRS3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SFRS3 Antibody (Center) - Protein Information

Name SRSF3

Synonyms SFRS3, SRP20

Function Splicing factor, which binds the consensus motif 5'- C[ACU][AU]C[ACU][AC]C-3' within pre-mRNA and promotes specific exons inclusion during alternative splicing (PubMed:17036044, PubMed:26876937, PubMed:32440474). Interaction with YTHDC1, a RNA- binding protein that recognizes and binds N6-methyladenosine (m6A)- containing RNAs, promotes recruitment of SRSF3 to its mRNA-binding elements adjacent to m6A sites within exons (PubMed:26876937). Also functions as an adapter involved in mRNA nuclear export (PubMed:11336712, PubMed:18364396, PubMed:28984244). Binds mRNA which is thought to be transferred to the NXF1-NXT1 heterodimer for export (TAP/NXF1 pathway); enhances NXF1-NXT1 RNA-binding activity (PubMed:11336712, PubMed:18364396). Involved in nuclear export of m6A- containing mRNAs via interaction with YTHDC1: interaction with YTHDC1 facilitates m6A-containing mRNA-binding to both SRSF3 and NXF1, promoting mRNA nuclear export (PubMed:28984244).

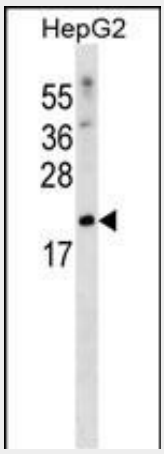
Cellular Location
Nucleus. Nucleus speckle. Cytoplasm. Note=Recruited to nuclear speckles following interaction with YTHDC1.

SFRS3 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SFRS3 Antibody (Center) - Images



SFRS3 Antibody (Center) (Cat. #AP16268c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the SFRS3 antibody detected the SFRS3 protein (arrow).

SFRS3 Antibody (Center) - Background

SFRS3 is a member of the
serine/arginine (SR)-rich family of pre-mRNA splicing factors,

which constitute part of the spliceosome. Each of these factors contains an RNA recognition motif (RRM) for binding RNA and an RS domain for binding other proteins. The RS domain is rich in serine and arginine residues and facilitates interaction between different SR splicing factors. In addition to being critical for mRNA splicing, the SR proteins have also been shown to be involved in mRNA export from the nucleus and in translation. Two transcript variants, one protein-coding and the other non-coding, have been found for this gene.

SFRS3 Antibody (Center) - References

Verma, D., et al. J. Virol. 84(22):11781-11789(2010)
Anko, M.L., et al. Nat. Struct. Mol. Biol. 17(8):962-970(2010)
Escudero-Paunetto, L., et al. Virology 401(2):155-164(2010)
Manley, J.L., et al. Genes Dev. 24(11):1073-1074(2010)
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