

SRSF3 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51533

Product Information

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|-------------------|------------------------|
| Application | WB, ICC, IHC-P |
| Primary Accession | P84103 |
| Reactivity | Human, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 19330 |

Additional Information

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| 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 | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human SRSF3. The exact sequence is proprietary. |
| Dilution | WB~~1:1000 ICC~~N/A IHC-P~~N/A |
| Format | 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50% |
| Storage | Store at -20 °C.Stable for 12 months from date of receipt |

Protein Information

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| 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.

Background

May be involved in RNA processing in relation with cellular proliferation and/or maturation. May function as export adapter involved in mRNA nuclear export such as of histone H2A. Binds mRNA which is thought to be transferred to the NXF1-NXT1 heterodimer for export (TAP/NXF1 pathway); enhances NXF1-NXT1 RNA-binding activity. RNA-binding is semi-sequence specific.

References

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Liu W.L.,et al.Submitted (NOV-1998) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Mungall A.J.,et al.Nature 425:805-811(2003).
Barnard D.C.,et al.Mol. Cell. Biol. 20:3049-3057(2000).

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