

# SRSF3 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51533

## Product Information

Application	WB, ICC, IHC-P
Primary Accession	<a href="#">P84103</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19330

## 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
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

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: <a href="#">17036044</a> , PubMed: <a href="#">26876937</a> , PubMed: <a href="#">32440474</a> ). 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: <a href="#">26876937</a> ). Also functions as an adapter involved in mRNA nuclear export (PubMed: <a href="#">11336712</a> , PubMed: <a href="#">18364396</a> , PubMed: <a href="#">28984244</a> ). 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: <a href="#">11336712</a> , PubMed: <a href="#">18364396</a> ). 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: <a href="#">28984244</a> ).
Cellular Location	Nucleus. Nucleus speckle. Cytoplasm. Note=Recruited to nuclear speckles

following interaction with YTHDC1.

## Background

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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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Zahler A.M., et al. *Genes Dev.* 6:837-847(1992).  
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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