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SFRS3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP16268c

Specification

SFRS3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P84103

SFRS3 Antibody (Center) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SFRS3 Antibody (Center) Blocking Peptide - Protein Information

Name SRSF3

Synonyms SFRS3, SRP20

Function
Splicing factor that specifically promotes exon-inclusion during alternative splicing (PubMed:26876937). Interaction with YTHDC1, a RNA-binding

SFRS3 Antibody (Center) Blocking Peptide - Background

SFRS3 is a member of theserine/arginine (SR)-rich family of pre-mRNA splicing factors,which constitute part of the spliceosome. Each of these factorscontains an RNA recognition motif (RRM) for binding RNA and an RSdomain for binding other proteins. The RS domain is rich in serineand arginine residues and facilitates interaction between differentSR splicing factors. In addition to being critical for mRNAsplicing, the SR proteins have also been shown to be involved inmRNA export from the nucleus and in translation. Two transcriptvariants, one protein-coding and the other non-coding, have beenfound for this gene.

SFRS3 Antibody (Center) Blocking Peptide - 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)Fingert, J.H., et al. Mol. Vis. 16, 596-601 (2010) :

protein that recognizes and binds N6-methyladenosine (m6A)-containing RNAs, promotes recruitment of SRSF3 to its mRNA- binding elements adjacent to m6A sites, leading to exon-inclusion during alternative splicing (PubMed:26876937). Also functions as export 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). RNA-binding is semi-sequence specific (PubMed:17036044).

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

SFRS3 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides