

SFRS1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6857a**Specification**

SFRS1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q07955](#)**SFRS1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 6426**Other Names**

Serine/arginine-rich splicing factor 1, Alternative-splicing factor 1, ASF-1, Splicing factor, arginine/serine-rich 1, pre-mRNA-splicing factor SF2, P33 subunit, SRSF1, ASF, SF2, SF2P33, SFRS1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6857a](/products/AP6857a) was selected from the N-term region of human SFRS1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SFRS1 Antibody (N-term) Blocking Peptide - Protein Information**Name** SRSF1 ([HGNC:10780](#))**Synonyms** ASF, SF2, SF2P33, SFRS1**Function**

Plays a role in preventing exon skipping, ensuring the accuracy of splicing and regulating alternative splicing. Interacts with other spliceosomal components, via the RS domains, to form a bridge between the 5'- and 3'-splice site binding components, U1 snRNP and U2AF. Can stimulate binding of U1 snRNP to a 5'-splice site- containing pre-mRNA. Binds to purine-rich RNA sequences, either the octamer, 5'-RGAAGAAC-3' (r=A or G) or the decamers, AGGACAGAGC/AGGACGAAGC. Binds preferentially to the 5'-CGAGGCG-3' motif in vitro. Three copies of the octamer constitute a powerful splicing enhancer in vitro, the ASF/SF2 splicing enhancer (ASE) which can specifically activate ASE-dependent splicing. Isoform ASF-2 and isoform ASF-3 act as splicing repressors. May function as export adapter involved in mRNA nuclear export through the TAP/NXF1 pathway.

Cellular Location

Cytoplasm. Nucleus speckle. Note=In nuclear speckles. Shuttles between the nucleus and the cytoplasm (PubMed:12215544, PubMed:20308322, PubMed:9420331, PubMed:24449914). Nuclear import is mediated via interaction with TNPO3 (PubMed:24449914).

SFRS1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SFRS1 Antibody (N-term) Blocking Peptide - Images**SFRS1 Antibody (N-term) Blocking Peptide - Background**

SFRS1 is a member of the arginine/serine-rich splicing factor protein family, and functions in both constitutive and alternative pre-mRNA splicing. The protein binds to pre-mRNA transcripts and components of the spliceosome, and can either activate or repress splicing depending on the location of the pre-mRNA binding site. The protein's ability to activate splicing is regulated by phosphorylation and interactions with other splicing factor associated proteins.

SFRS1 Antibody (N-term) Blocking Peptide - References

Sugiyama,N., et.al., Mol. Cell Proteomics 6 (6), 1103-1109 (2007)