

# SFRS1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6857a

## **Product Information**

| Application       | WB, IHC-P, E                          |
|-------------------|---------------------------------------|
| Primary Accession | <u>Q07955</u>                         |
| Other Accession   | <u>Q3YLA6, Q6PDM2, Q5ZML3, Q0VCY7</u> |
| Reactivity        | Human                                 |
| Predicted         | Bovine, Chicken, Mouse, Pig           |
| Host              | Rabbit                                |
| Clonality         | Polyclonal                            |
| Isotype           | Rabbit IgG                            |
| Clone Names       | RB22955                               |
| Calculated MW     | 27745                                 |
| Antigen Region    | 11-38                                 |

#### **Additional Information**

| Gene ID            | 6426   |
|--------------------|--|
| Other Names        | Serine/arginine-rich splicing factor 1, Alternative-splicing factor 1, ASF-1,<br>Splicing factor, arginine/serine-rich 1, pre-mRNA-splicing factor SF2, P33<br>subunit, SRSF1, ASF, SF2, SF2P33, SFRS1 |
| Target/Specificity | This SFRS1 antibody is generated from rabbits immunized with a KLH<br>conjugated synthetic peptide between 11-38 amino acids from the N-terminal<br>region of human SFRS1.                             |
| Dilution           | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.  |
| Format             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.<br>This antibody is purified through a protein A column, followed by peptide<br>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        | SFRS1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.  |

#### **Protein Information**

| Name     | SRSF1 ( <u>HGNC:10780</u> ) |
|----------|-----------------------------|
| Synonyms | ASF, SF2, SF2P33, SFRS1     |

| Function          | Plays a role in preventing exon skipping, ensuring the accuracy of splicing<br>and regulating alternative splicing. Interacts with other spliceosomal<br>components, via the RS domains, to form a bridge between the 5'- and<br>3'-splice site binding components, U1 snRNP and U2AF. Can stimulate binding<br>of U1 snRNP to a 5'-splice site- containing pre-mRNA. Binds to purine-rich<br>RNA sequences, either the octamer, 5'-RGAAGAAC-3' (r=A or G) or the<br>decamers, AGGACAGAGC/AGGACGAAGC. Binds preferentially to the<br>5'-CGAGGCG-3' motif in vitro. Three copies of the octamer constitute a<br>powerful splicing enhancer in vitro, the ASF/SF2 splicing enhancer (ASE) which<br>can specifically activate ASE-dependent splicing. Isoform ASF-2 and isoform<br>ASF-3 act as splicing repressors. May function as export adapter involved in<br>mRNA nuclear export through the TAP/NXF1 pathway. |
|-------------------|---|
| Cellular Location | Cytoplasm. Nucleus speckle. Note=In nuclear speckles. Shuttles between the<br>nucleus and the cytoplasm (PubMed:12215544, PubMed:20308322,<br>PubMed:24449914, PubMed:9420331). Nuclear import is mediated via<br>interaction with TNPO3 (PubMed:24449914).   |

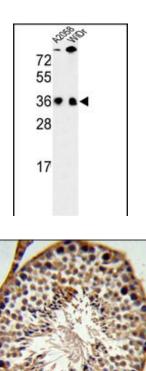
## Background

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.

# References

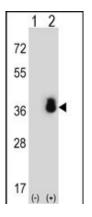
Sugiyama, N., et.al., Mol. Cell Proteomics 6 (6), 1103-1109 (2007)

#### Images



Western blot analysis of SFRS1 Antibody (N-term) (Cat. #AP6857a) in A2058, WiDr cell line lysates (35ug/lane). SFRS1 (arrow) was detected using the purified Pab.

SFRS1 Antibody (N-term) (Cat. #AP6857a) IHC analysis in formalin fixed and paraffin embedded testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SFRS1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Western blot analysis of SFRS1 (arrow) using rabbit polyclonal SFRS1 Antibody (N-term) (Cat. #AP6857a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SFRS1 gene.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.