

# SF2 Antibody

Rabbit mAb Catalog # AP91597

#### **Product Information**

**Application** WB, IHC, IF, FC, ICC, IHF

Primary Accession <u>Q07955</u>

**Reactivity** Rat, Human, Mouse

**Clonality** Monoclonal

Other Names ASF; ASF1; SF2; SF2p33; SRp30a; SRSF1; SFRS1;

IsotypeRabbit IgGHostRabbitCalculated MW27745

### **Additional Information**

**Dilution** WB 1:500~1:2000 IHC 1:100~1:500 ICC/IF 1:50~1:200 FC 1:50

**Purification** Affinity-chromatography

**Immunogen** A synthesized peptide derived from human SF2

**Description** 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

#### **Protein Information**

Name SRSF1 ( HGNC:10780)

**Synonyms** ASF, SF2, SF2P33, SFRS1

**Function** Plays a role in preventing exon skipping, ensuring the accuracy of splicing

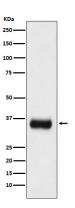
and regulating alternative splicing. Interacts with other spliceosomal components, via the RS domains, to form a bridge between the 5'- and 3'-splice site binding components, U1 snRNP and U2AF. Can stimulate binding of U1 snRNP to a 5'-splice site- containing pre-mRNA. Binds to purine-rich RNA sequences, 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:24449914, PubMed:9420331). Nuclear import is mediated via interaction with TNPO3 (PubMed:24449914).

## **Images**



Western blot analysis of SF2 expression in mouse spleen lysate.

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