

**SF3B1 Antibody**  
Rabbit mAb  
Catalog # AP91713

## Specification

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### SF3B1 Antibody - Product Information

Application	WB, IHC, FC, ICC
Primary Accession	<a href="#">O75533</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
Hsh 155; MDS; PRP10; PRPF10; SAP155; SF3B 1; SF3b155;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	145830 Da

### SF3B1 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human SF3B1
Description	SF3B1 is subunit 1 of the splicing factor 3b protein complex. Splicing factor 3b, together with splicing factor 3a and a 12S RNA unit, forms the U2 small nuclear ribonucleoproteins complex (U2 snRNP). The splicing factor 3b/3a complex binds pre-mRNA upstream of the intron's branch site in a sequence independent manner and may anchor the U2 snRNP to the pre-mRNA.
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.

### SF3B1 Antibody - Protein Information

**Name** SF3B1 {ECO:0000303|PubMed:30567737, ECO:0000312|HGNC:HGNC:10768}

#### Function

Component of the 17S U2 SnRNP complex of the spliceosome, a large ribonucleoprotein complex that removes introns from transcribed pre-mRNAs (PubMed:<a href="http://www.uniprot.org/citations/12234937" target="\_blank">12234937</a>, PubMed:<a href="http://www.uniprot.org/citations/27720643" target="\_blank">27720643</a>, PubMed:<a href="http://www.uniprot.org/citations/32494006" target="\_blank">32494006</a>, PubMed:<a href="http://www.uniprot.org/citations/34822310" target="\_blank">34822310</a>). The 17S U2

SnRNP complex (1) directly participates in early spliceosome assembly and (2) mediates recognition of the intron branch site during pre-mRNA splicing by promoting the selection of the pre-mRNA branch-site adenosine, the nucleophile for the first step of splicing (PubMed:<a href="http://www.uniprot.org/citations/32494006" target="\_blank">32494006</a>, PubMed:<a href="http://www.uniprot.org/citations/34822310" target="\_blank">34822310</a>). Within the 17S U2 SnRNP complex, SF3B1 is part of the SF3B subcomplex, which is required for 'A' complex assembly formed by the stable binding of U2 snRNP to the branchpoint sequence in pre-mRNA (PubMed:<a href="http://www.uniprot.org/citations/12234937" target="\_blank">12234937</a>). Sequence independent binding of SF3A and SF3B subcomplexes upstream of the branch site is essential, it may anchor U2 snRNP to the pre-mRNA (PubMed:<a href="http://www.uniprot.org/citations/12234937" target="\_blank">12234937</a>). May also be involved in the assembly of the 'E' complex (PubMed:<a href="http://www.uniprot.org/citations/10882114" target="\_blank">10882114</a>). Also acts as a component of the minor spliceosome, which is involved in the splicing of U12-type introns in pre-mRNAs (PubMed:<a href="http://www.uniprot.org/citations/15146077" target="\_blank">15146077</a>, PubMed:<a href="http://www.uniprot.org/citations/33509932" target="\_blank">33509932</a>). Together with other U2 snRNP complex components may also play a role in the selective processing of microRNAs (miRNAs) from the long primary miRNA transcript, pri-miR-17-92 (By similarity).

#### Cellular Location

Nucleus. Nucleus speckle. Note=During mitosis, transiently dispersed from the nuclear speckles to the cytoplasm

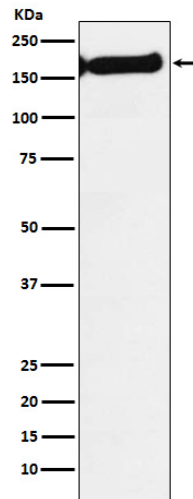
#### SF3B1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### SF3B1 Antibody - Images





Western blot analysis of SF3B1 expression in Jurkat cell lysate.