

# SF3B1 Rabbit mAb

Catalog # AP77117

#### **Product Information**

**Application** WB, IHC-P, IF, FC, ICC

**Primary Accession** 075533

Rat, Human, Mouse Reactivity

Host Rabbit

Monoclonal Antibody Clonality

Isotype IgG

Conjugate Unconjugated

**Immunogen** A synthesized peptide derived from human SF3B1

**Purification** Affinity Chromatography

**Calculated MW** 145830

## **Additional Information**

Gene ID 23451

SF3B1 **Other Names** 

Dilution WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A

Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% **Format** 

sodium azide and 50% glycerol.

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

### **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: 12234937, PubMed: 27720643, PubMed: 32494006,

PubMed:34822310). 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

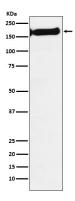
branch-site adenosine, the nucleophile for the first step of splicing

(PubMed:32494006, PubMed:34822310). 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:12234937). 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: 12234937). May also be involved in the assembly of the 'E' complex (PubMed: 10882114). Also acts as a component of the minor spliceosome, which is involved in the splicing of U12-type introns in pre-mRNAs (PubMed:15146077, PubMed:33509932). 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

## **Images**



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