

**SF3B2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16199c****Specification**

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**SF3B2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q13435](#)**SF3B2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 10992**Other Names**

Splicing factor 3B subunit 2, Pre-mRNA-splicing factor SF3b 145 kDa subunit, SF3b145, SF3b150, Spliceosome-associated protein 145, SAP 145, SF3B2, SAP145

**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.

**SF3B2 Antibody (Center) Blocking Peptide - Protein Information****Name** SF3B2**Synonyms** SAP145**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/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/12234937" target="\_blank">12234937</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>). Within the 17S U2 SnRNP complex, SF3B2 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>, PubMed:<a href="http://www.uniprot.org/citations/27720643" target="\_blank">27720643</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>).

#### **Cellular Location**

Nucleus. Nucleus speckle

### **SF3B2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **SF3B2 Antibody (Center) Blocking Peptide - Images**

### **SF3B2 Antibody (Center) Blocking Peptide - Background**

This gene encodes subunit 2 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. Splicing factor 3b is also a component of the minor U12-type spliceosome. Subunit 2 associates with pre-mRNA upstream of the branch site at the anchoring site. Subunit 2 also interacts directly with subunit 4 of the splicing factor 3b complex. Subunit 2 is a highly hydrophilic protein with a proline-rich N-terminus and a glutamate-rich stretch in the C-terminus. [provided by RefSeq].

### **SF3B2 Antibody (Center) Blocking Peptide - References**

Matsuoka, S., et al. Science 316(5828):1160-1166(2007) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Olsen, J.V., et al. Cell 127(3):635-648(2006) Olsen, J.V., et al. Cell 127(3):635-648(2006) Terada, Y., et al. Mol. Cell. Biol. 26(21):8149-8158(2006)