

SF3B1 Antibody (aa75-124)
Rabbit Polyclonal Antibody
Catalog # ALS16345**Specification****SF3B1 Antibody (aa75-124) - Product Information**

Application	WB
Primary Accession	O75533
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	146kDa KDa

SF3B1 Antibody (aa75-124) - Additional Information**Gene ID** 23451**Other Names**

Splicing factor 3B subunit 1, Pre-mRNA-splicing factor SF3b 155 kDa subunit, SF3b155, Spliceosome-associated protein 155, SAP 155, SF3B1, SAP155

Target/Specificity

SAP 155 antibody detects endogenous levels of SAP 155.

Reconstitution & Storage

Store at -20°C.

Precautions

SF3B1 Antibody (aa75-124) is for research use only and not for use in diagnostic or therapeutic procedures.

SF3B1 Antibody (aa75-124) - 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

Volume

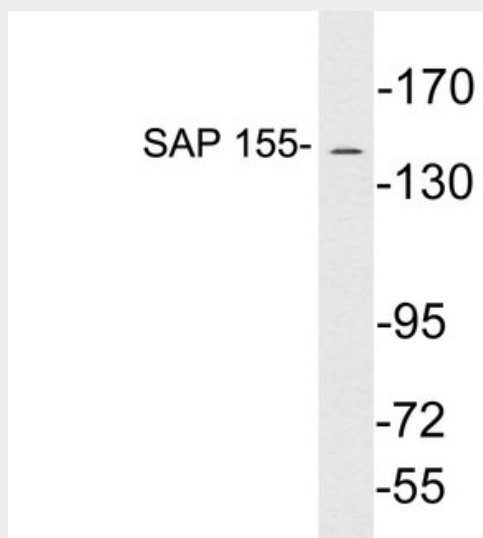
50 µl

SF3B1 Antibody (aa75-124) - 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 (aa75-124) - Images



Western blot of extracts from Jurkat cells, using SAP 155 antibody.

SF3B1 Antibody (aa75-124) - Background

Subunit of the splicing factor SF3B required for 'A' complex assembly formed by the stable binding of U2 snRNP to the branchpoint sequence (BPS) in pre-mRNA. Sequence independent binding of SF3A/SF3B complex upstream of the branch site is essential, it may anchor U2 snRNP to the pre-mRNA. May also be involved in the assembly of the 'E' complex. Belongs also to the minor U12-dependent spliceosome, which is involved in the splicing of rare class of nuclear pre-mRNA intron.

SF3B1 Antibody (aa75-124) - References

Wang C.,et al.Genes Dev. 12:1409-1414(1998).
Woessner J.,et al.Submitted (SEP-1998) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).
Yu W.,et al.Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases.
Das R.,et al.Mol. Cell 5:779-787(2000).