

# SF3B3 Rabbit mAb

Catalog # AP76074

## Product Information

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<b>Application</b>	WB, IHC-P, FC, IP
<b>Primary Accession</b>	<a href="#">Q15393</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	135577

## Additional Information

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<b>Gene ID</b>	23450
<b>Other Names</b>	SF3B3
<b>Dilution</b>	WB~~1:500-1:1000 IHC-P~~N/A FC~~1:100-1:200 IP~~1:20-1:50
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	SF3B3
<b>Synonyms</b>	KIAA0017, SAP130 {ECO:0000303   PubMed:104
<b>Function</b>	Component of the 17S U2 SnRNP complex of the spliceosome, a large ribonucleoprotein complex that removes introns from transcribed pre-mRNAs (PubMed: <a href="#">10490618</a> , PubMed: <a href="#">10882114</a> , PubMed: <a href="#">12234937</a> , PubMed: <a href="#">27720643</a> , PubMed: <a href="#">28781166</a> , PubMed: <a href="#">32494006</a> , PubMed: <a href="#">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="#">12234937</a> , PubMed: <a href="#">32494006</a> , PubMed: <a href="#">34822310</a> ). Within the 17S U2 SnRNP complex, SF3B3 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="#">12234937</a> , PubMed: <a href="#">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:[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](#)).

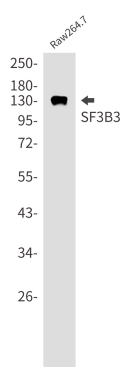
**Cellular Location**

Nucleus

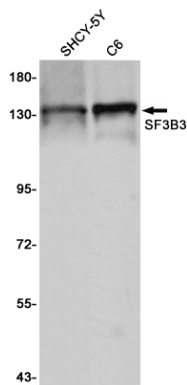
## Background

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.

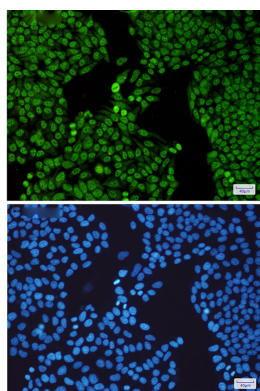
## Images



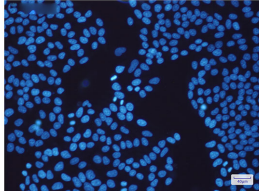
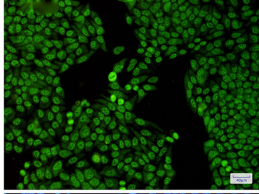
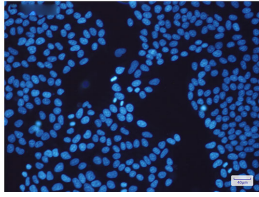
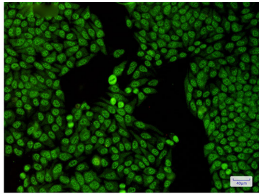
Western blot analysis of SF3B3 in Raw264.7 lysates using SF3B3 antibody.



Western blot analysis of SF3B3 in SH-SY5Y, C6 lysates using SF3B3 antibody.



Immunocytochemistry analysis of SF3B3(green) in HeLa using SF3B3 antibody, and DAPI(blue)



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