

# SF3A2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP20040c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q15428</a>
<b>Other Accession</b>	<a href="#">Q6AXT8</a> , <a href="#">Q62203</a> , <a href="#">A5PJN8</a> , <a href="#">NP_009096.2</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Bovine, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB42212
<b>Calculated MW</b>	49256
<b>Antigen Region</b>	166-194

## Additional Information

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<b>Gene ID</b>	8175
<b>Other Names</b>	Splicing factor 3A subunit 2, SF3a66, Spliceosome-associated protein 62, SAP 62, SF3A2, SAP62
<b>Target/Specificity</b>	This SF3A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 166-194 amino acids from the Central region of human SF3A2.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	SF3A2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	SF3A2
<b>Synonyms</b>	SAP62

## Function

Component of the 17S U2 SnRNP complex of the spliceosome, a large ribonucleoprotein complex that removes introns from transcribed pre-mRNAs (PubMed:[10882114](#), PubMed:[11533230](#), 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:[10882114](#), PubMed:[11533230](#), PubMed:[32494006](#), PubMed:[34822310](#)). Within the 17S U2 SnRNP complex, SF3A2 is part of the SF3A subcomplex that contributes to the assembly of the 17S U2 snRNP, and the subsequent assembly of the pre-spliceosome 'E' complex and the pre-catalytic spliceosome 'A' complex (PubMed:[10882114](#), PubMed:[11533230](#)). Involved in pre-mRNA splicing as a component of pre-catalytic spliceosome 'B' complexes, including the Bact complex (PubMed:[29360106](#), PubMed:[29361316](#), PubMed:[30315277](#)). Interacts directly with the duplex formed by U2 snRNA and the intron (PubMed:[29360106](#)).

## Cellular Location

Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00130, ECO:0000269 | PubMed:10882114, ECO:0000269 | PubMed:21349847, ECO:0000269 | PubMed:29360106, ECO:0000269 | PubMed:29361316, ECO:0000269 | PubMed:30315277}

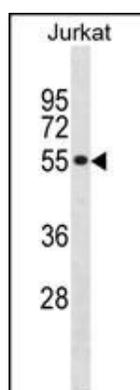
## Background

This gene encodes subunit 2 of the splicing factor 3a protein complex. The splicing factor 3a heterotrimer includes subunits 1, 2 and 3 and is necessary for the in vitro conversion of 15S U2 snRNP into an active 17S particle that performs pre-mRNA splicing. Subunit 2 interacts with subunit 1 through its amino-terminus while the single zinc finger domain of subunit 2 plays a role in its binding to the 15S U2 snRNP. Subunit 2 may also function independently of its RNA splicing function as a microtubule-binding protein.

## References

Rose, J. Phd, et al. Mol. Med. (2010) In press :  
Tanackovic, G., et al. Mol. Biol. Cell 16(3):1366-1377(2005)  
Nesic, D., et al. J. Cell. Sci. 117 (PT 19), 4423-4433 (2004) :  
Takenaka, K., et al. Biochem. J. 382 (PT 1), 223-230 (2004) :  
Colland, F., et al. Genome Res. 14(7):1324-1332(2004)

## Images



SF3A2 Antibody (Center) (Cat. #AP20040c) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the SF3A2 antibody detected the SF3A2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.