

SAP 155 Polyclonal Antibody

Catalog # AP73221

Product Information

Application WB 075533 **Primary Accession**

Reactivity Human, Mouse

Host Rabbit Clonality **Polyclonal** Calculated MW 145830

Additional Information

Gene ID 23451

Other Names SF3B1; SAP155; Splicing factor 3B subunit 1; Pre-mRNA-splicing factor SF3b

155 kDa subunit; SF3b155; Spliceosome-associated protein 155; SAP 155

Dilution WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

Protein Information

SF3B1 {ECO:0000303|PubMed:30567737, ECO:0000312|HGNC:HGNC:10768} Name

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).

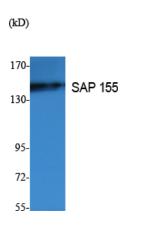
Cellular Location

Nucleus. Nucleus speckle. Note=During mitosis, transiently dispersed from the nuclear speckles to the cytoplasm

Background

Involved in pre-mRNA splicing as a component of the splicing factor SF3B complex (PubMed: 27720643). SF3B complex is 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 (PubMed:12234937). May also be involved in the assembly of the 'E' complex (PubMed:10882114). Belongs also to the minor U12-dependent spliceosome, which is involved in the splicing of rare class of nuclear pre-mRNA intron (PubMed:15146077).

Images



Western Blot analysis of extracts from K562 cells, using SAP 155 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

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