

## Product datasheet for **CF800461**

### SF3A1 Mouse Monoclonal Antibody [Clone ID: OTI8H1]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI8H1   |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | WB 1:2000, IHC 1:500   |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Mouse  |
| Isotype:                | IgG2b  |
| Clonality:              | Monoclonal   |
| Immunogen:              | Human recombinant protein fragment corresponding to amino acids 249-568 of human SF3A1 (NP_005868) produced in E.coli.   |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 88.7 kDa   |
| Gene Name:              | splicing factor 3a subunit 1   |
| Database Link:          | <a href="#">NP_005868</a><br><a href="#">Entrez Gene 67465 Mouse</a> <a href="#">Entrez Gene 305479 Rat</a> <a href="#">Entrez Gene 10291 Human</a><br><a href="#">Q15459</a>  |



[View online »](#)

**Background:**

This gene encodes subunit 1 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 1 belongs to the SURP protein family; named for the SURP (also called SWAP or Suppressor-of-White-APricot) motifs that are thought to mediate RNA binding. Subunit 1 has tandemly repeated SURP motifs in its amino-terminal half while its carboxy-terminal half contains a proline-rich region and a ubiquitin-like domain. Binding studies with truncated subunit 1 derivatives demonstrated that the two SURP motifs are necessary for binding to subunit 3 while contacts with subunit 2 may occur through sequences carboxy-terminal to the SURP motifs. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

**Synonyms:**

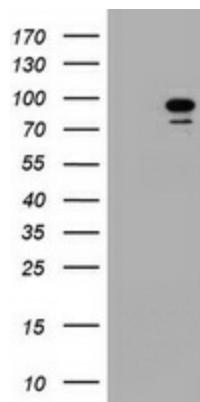
PRP21; PRPF21; SAP114; SF3A120

**Protein Families:**

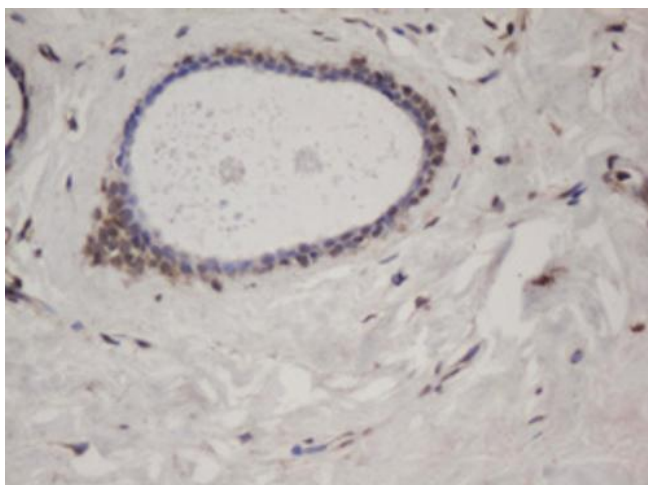
Druggable Genome

**Protein Pathways:**

Spliceosome

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SF3A1 [RC201098], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SF3A1. Positive lysates [LY416998] (100ug) and [LC416998] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-SF3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800461])