

Datasheet for ABIN2778958  
**anti-SF3A1 antibody (N-Term)**

3 Images

1 Publication

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## Overview

Quantity:	100 µL
Target:	SF3A1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Horse, Rabbit, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SF3A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human SF3A1
Sequence:	QQTQQLPQ KVQAQVIQET IVPKEPPPEF EFIADPPSIS AFDLDVVKLT
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against SF3A1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	SF3A1
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## Target Details

Alternative Name: SF3A1 ([SF3A1 Products](#))

Background: SF3A1 is the 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 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. 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.

Alias Symbols: PRP21, PRPF21, SAP114, SF3A120

Protein Interaction Partner: HDAC1, FUS, HUWE1, UBC, RPA3, RPA2, RPA1, WWOX, ZBTB1, SUZ12, EED, RNF2, rev, NR3C1, APBB1, HNRNPR, GAS7, CCDC6, PPP4R2, BRCC3, SMEK1, PRPF40A, GAPVD1, WBP4, TCERG1, HDAC11, HDAC6, SF3A3, DDX42, RBM10, SF3A2, SF1, WHSC1, IL7R, CSNK2A1, WDR77, RBFOX2, SMUR

Protein Size: 793

Molecular Weight: 89 kDa

Gene ID: 10291

NCBI Accession: [NM\\_005877](#), [NP\\_005868](#)

UniProt: [Q15459](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#)

## Application Details

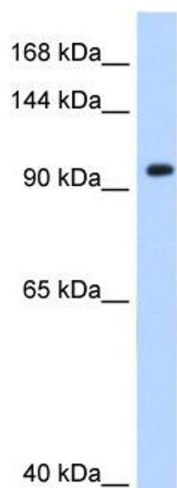
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 793 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

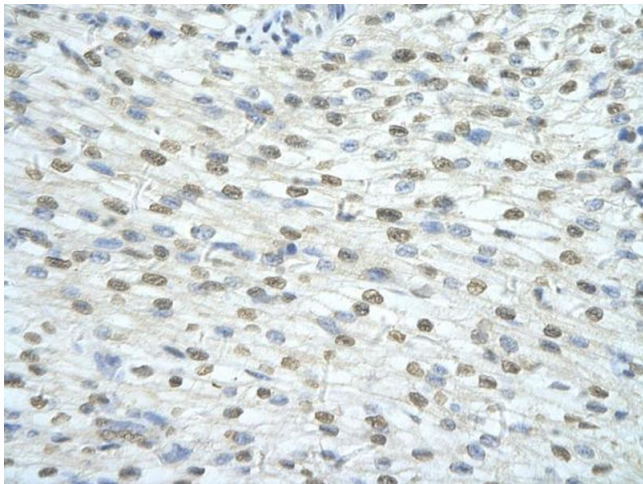
## Publications

Product cited in:	Lazrek, Goffard, Schanen, Karquel, Bocket, Lion, Devaux, Hedouin, Gosset, Hober: "Detection of hepatitis C virus antibodies and RNA among medicolegal autopsy cases in Northern France." in: <b>Diagnostic microbiology and infectious disease</b> , Vol. 55, Issue 1, pp. 55-8, (2006) ( <a href="#">PubMed</a> ).
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### Western Blotting

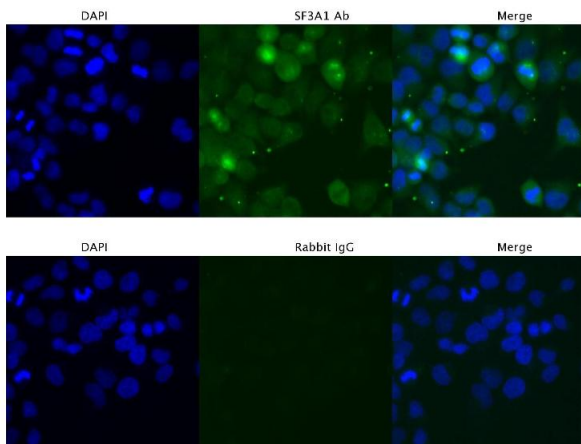
**Image 1.** WB Suggested Anti-SF3A1 Antibody Titration: 0.2-1 ug/ml Positive Control: 721\_B cell lysate SF3A1 is strongly supported by BioGPS gene expression data to be expressed in Human 721\_B cells



### Immunohistochemistry

**Image 2.** Rabbit Anti-SF3A1 antibody Paraffin Embedded Tissue: Human Heart cell Cellular Data: cardiac cell Antibody Concentration: 4.0-8.0 ug/ml Magnification: 400X

SF3A1 in HeLa Cells



### Immunofluorescence

**Image 3.** Sample Type : HeLa Primary Antibody Dilution: 4 ug/ml Secondary Antibody : Anti-rabbit Alexa 546 Secondary Antibody Dilution: 2 ug/ml Gene Name : SF3A1