

For Research Use Only

# SF3B3 Polyclonal antibody

Catalog Number: 14577-1-AP **19 Publications**



## Basic Information

<b>Catalog Number:</b> 14577-1-AP	<b>GenBank Accession Number:</b> BC003146	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 650 µg/ml	<b>GeneID (NCBI):</b> 23450	<b>Recommended Dilutions:</b> WB 1:2000-1:12000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q15393	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> splicing factor 3b, subunit 3, 130kDa	IHC 1:2000-1:8000 IF 1:20-1:200
<b>Immunogen Catalog Number:</b> AG5980	<b>Calculated MW:</b> 136 kDa	
	<b>Observed MW:</b> 130-135 kDa	

## Applications

**Tested Applications:**  
IF/ICC, IF-P, IHC, IP, WB, ELISA

**Cited Applications:**  
WB, IF, RIP, CoIP

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, mouse, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** Jurkat cells, mouse heart tissue, human brain tissue, rat brain tissue, rat heart tissue, HeLa cells

**IP:** rat brain tissue,

**IHC:** human lung cancer tissue, human gliomas tissue, rat brain tissue

**IF:** HeLa cells, mouse heart tissue

## Background Information

Introns are removed from nuclear pre-mRNA in 2-step transesterification reactions. Splicing occurred in a large ribonucleoprotein particle, called the spliceosome. Spliceosomal intermediate complexes form on pre-mRNA in the order E, A, B, and C, with the catalytic reactions occurring in complex C. U2 small nuclear ribonucleoproteins are one of the proteins essential for spliceosome assembly and mRNA splicing. Functional U2 snRNP is composed of a 12S unit and 2 splicing factors, SF3A, which is composed of 3 proteins, and SF3B, which composed of 4 proteins. SF3B3 is one of SF3B, and it's required for 'A' complex assembly formed by the stable binding of U2 snRNP to the branchpoint sequence(BPS) in pre-mRNA.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qingyang Zhang	34551807	Mol Neurodegener	WB
Nam-Kyung Yu	34816099	iScience	IF, CoIP
Teng Teng	28541300	Nat Commun	WB

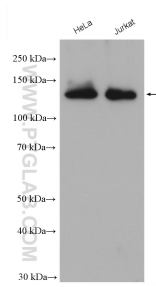
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

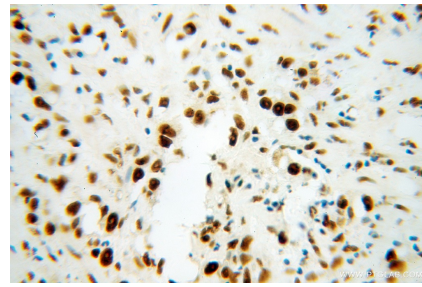
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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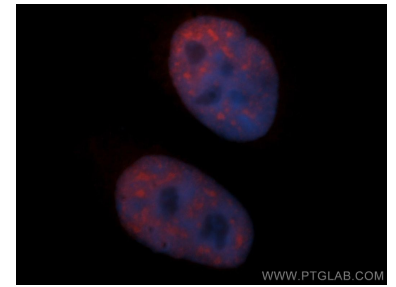
## Selected Validation Data



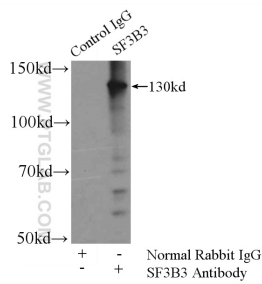
Various lysates were subjected to SDS PAGE followed by western blot with 14577-1-AP (SF3B3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



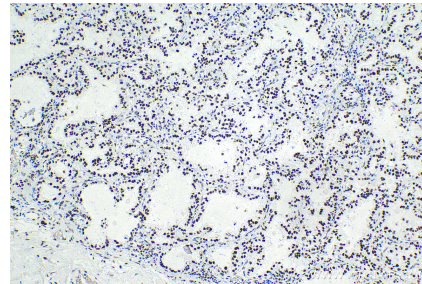
Immunohistochemical analysis of paraffin-embedded human gliomas using 14577-1-AP (SF3B3 antibody) at dilution of 1:100 (under 40x lens).



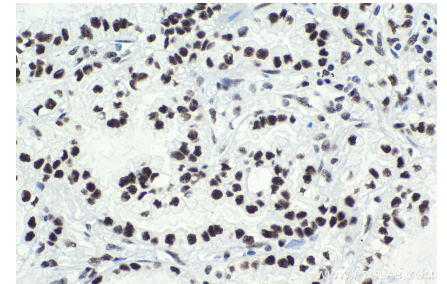
Immunofluorescent analysis of HeLa cells, using SF3B3 antibody 14577-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



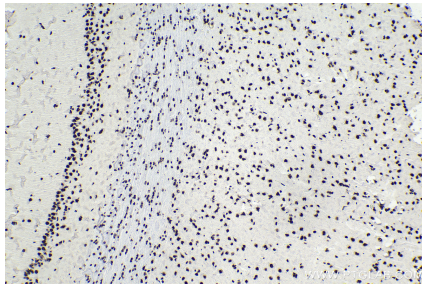
IP result of anti-SF3B3 (IP:14577-1-AP, 4ug; Detection:14577-1-AP 1:5000) with rat brain tissue lysate 4800ug.



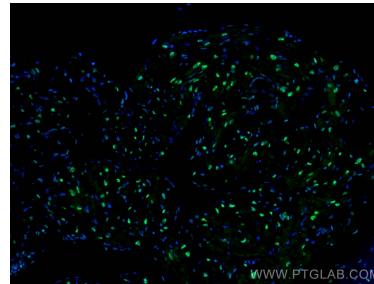
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14577-1-AP (SF3B3 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



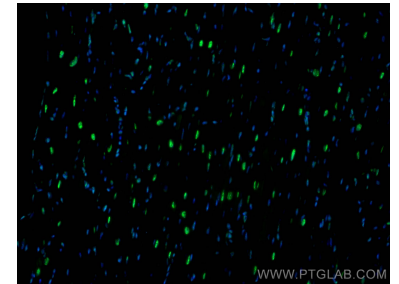
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14577-1-AP (SF3B3 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 14577-1-AP (SF3B3 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using SF3B3 antibody (14577-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using SF3B3 antibody (14577-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).