

SF3B3 Polyclonal antibody

Catalog Number: 14577-1-AP

18 Publications

Basic Information

Catalog Number: 14577-1-AP	GenBank Accession Number: BC003146	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 650 µg/ml by Nanodrop;	GeneID (NCBI): 23450	Recommended Dilutions: WB 1:2000-1:12000 IP 0.5-4.0 ug for IP and 1:2000-1:20000 for WB
Source: Rabbit	Full Name: splicing factor 3b, subunit 3, 130kDa	IHC 1:20-1:200
Isotype: IgG	Calculated MW: 136 kDa	IF 1:20-1:200
Immunogen Catalog Number: AG5980	Observed MW: 130-135 kDa	

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, RIP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, 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 gliomas 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

*** 20ul sizes contain 0.1% BSA

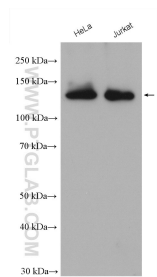
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

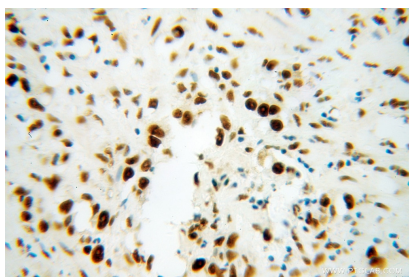
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

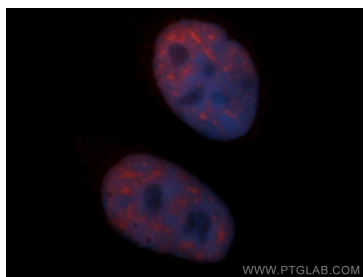
Selected Validation Data



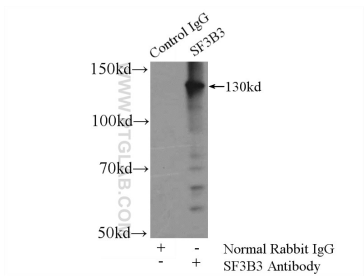
Various lysates were subjected to SDS PAGE followed by western blot with 14577-1-AP (SF3B3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



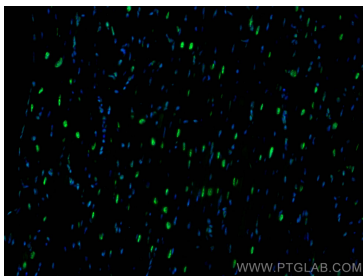
Immunohistochemical analysis of paraffin-embedded human gliomas using 14577-1-AP (SF3B3 antibody) at dilution of 1:100 (under 40x lens).



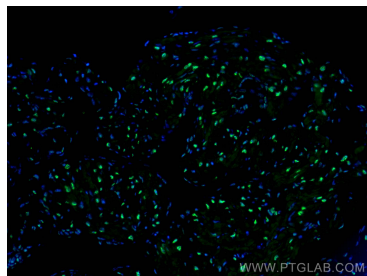
Immunofluorescent analysis of HeLa cells, using SF3B3 antibody 14577-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



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



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).