

Product Datasheet

SF3B4 Antibody (3A1) - BSA Free NBP1-92692

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-92692

SF3B4 Antibody (3A1) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3A1
Preservative	0.035% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	49 kDa

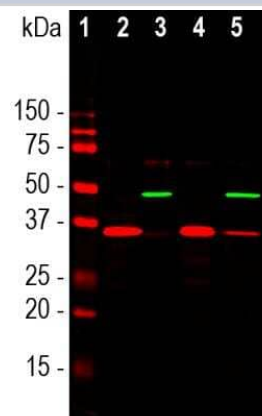
Product Description	
Host	Mouse
Gene ID	10262
Gene Symbol	SF3B4
Species	Human, Mouse, Rat
Immunogen	Full length recombinant human SF3B4 expressed in and purified from E. coli. [UniProt# Q15427]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000
Application Notes	This SF3B4 (3A1) antibody is useful for Immunocytochemistry/Immunofluorescence, immunohistochemistry, and Western blot, where a band can be seen at approximately 49 kDa.

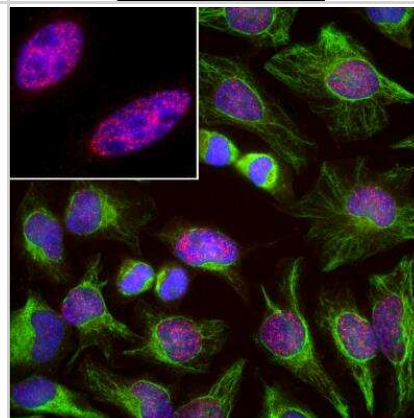


Images

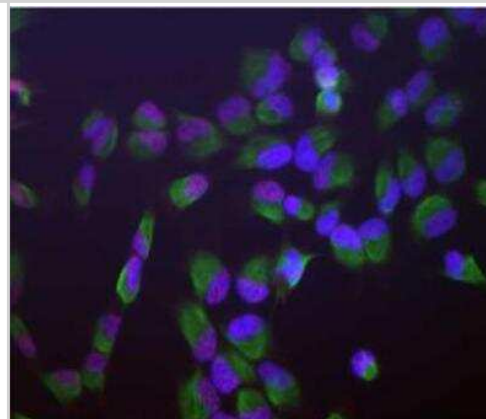
Western Blot: SF3B4 Antibody (3A1) [NBP1-92692] - Analysis of different cell lysates, cytosol or nuclear enriched fractions, using mouse mAb to splicing factor SF3B4, NBP1-92692, dilution 1:1,000 in green: [1] protein standard (red), [2] NIH-3T3 cytosolic fraction [3] NIH-3T3 nuclear fraction [4] HeLa cytosolic and [5] HeLa nuclear fractions. Strong single band at 49kDa represents the SF3B4 protein, which is expressed exclusively in the nuclei. The same blot was simultaneously probed with rabbit pAb to GAPDH, dilution 1:20,000, in red. The 37kDa band corresponds to GAPDH protein, detected mainly in the cytosolic fractions of these cells.



Immunocytochemistry/Immunofluorescence: SF3B4 Antibody (3A1) [NBP1-92692] - Analysis of HeLa cells stained with mouse mAb to splicing factor SF3B4, NBP1-92692, dilution 1:1,000 in red, and costained with chicken pAb to vimentin, dilution 1:10,000, in green. The blue is DAPI staining of nuclear DNA. The NBP1-92692 antibody reveals strong granular staining of the nuclei, while the vimentin antibody specifically labels cytoplasmic intermediate filaments.



Immunocytochemistry/Immunofluorescence: SF3B4 Antibody (3A1) [NBP1-92692] - HeLa cells stained with NBP1-92692 (red), chicken antibody to Vimentin (NB300-223, green) and DNA (blue, stained with DAPI). The SF3B4 (3A1) antibody reveals strong granular nuclear staining which is a little different from the DNA stain and presumably reflects splicosomal complexes. The Vimentin antibody stains the cytoplasmic intermediate filament network of the HeLa cells.



Publications

Yang G, Xiang J, Yang X et al. Nuclear translocation of SIRT4 mediates deacetylation of U2AF2 to modulate renal fibrosis through alternative splicing-mediated upregulation of CCN2 eLife 2024-11-04 [PMID: 39495216]

Sikorski K, Mehta A et al. A high-throughput pipeline for validation of antibodies. Nat Methods 2018-01-11 [PMID: 30377371] (Human)

Details:

Antibody validation based on denaturing gel electrophoresis of biotinylated cell lysates (PAGE) followed by mass spectrometry (MS) and antibody array analysis (MAP).



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Products Related to NBP1-92692

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP1-92692F	SF3B4 Antibody (3A1) [FITC]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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