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SF3B2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SF3B2.
Catalog # AT3838a

Product Information

Application	WB, IHC, IF
Primary Accession	Q13435
Other Accession	NM_006842
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5D2
Calculated MW	100228

Additional Information

Gene ID	10992
Other Names	Splicing factor 3B subunit 2, Pre-mRNA-splicing factor SF3b 145 kDa subunit, SF3b145, SF3b150, Spliceosome-associated protein 145, SAP 145, SF3B2, SAP145
Target/Specificity	SF3B2 (NP_006833, 592 a.a. ~ 645 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SF3B2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

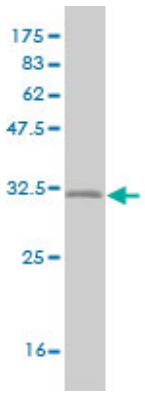
Background

This gene encodes subunit 2 of the splicing factor 3b protein complex. Splicing factor 3b, together with splicing factor 3a and a 12S RNA unit, forms the U2 small nuclear ribonucleoproteins complex (U2 snRNP). The splicing factor 3b/3a complex binds pre-mRNA upstream of the intron's branch site in a sequence-independent manner and may anchor the U2 snRNP to the pre-mRNA. Splicing factor 3b is also a component of the minor U12-type spliceosome. Subunit 2 associates with pre-mRNA upstream of the branch site at the anchoring site. Subunit 2 also interacts directly with subunit 4 of the splicing factor 3b complex. Subunit 2 is a highly hydrophilic protein with a proline-rich N-terminus and a glutamate-rich stretch in the C-terminus.

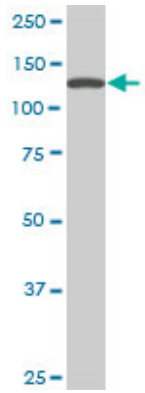
References

Systematic analysis of the protein interaction network for the human transcription machinery reveals the identity of the 7SK capping enzyme. Jeronimo C, et al. Mol Cell, 2007 Jul 20. PMID 17643375.Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.Human immunodeficiency virus type 1 Vpr induces G2 checkpoint activation by interacting with the splicing factor SAP145. Terada Y, et al. Mol Cell Biol, 2006 Nov. PMID 16923959.Induction of G2 arrest and binding to cyclophilin A are independent phenotypes of human immunodeficiency virus type 1 Vpr. Ardon O, et al. J Virol, 2006 Apr. PMID 16571786.

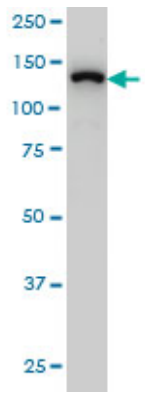
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (31.68 KDa) .

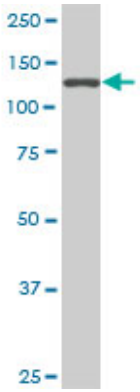


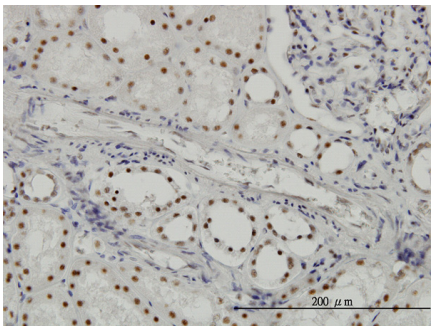
SF3B2 monoclonal antibody (M01), clone 5D2. Western Blot analysis of SF3B2 expression in PC-12 ((Cat # AT3838a)



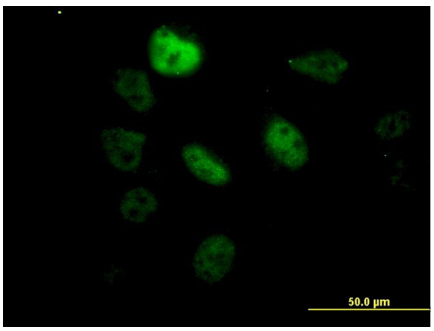
SF3B2 monoclonal antibody (M01), clone 5D2 Western Blot analysis of SF3B2 expression in Hela S3 NE ((Cat # AT3838a)

SF3B2 monoclonal antibody (M01), clone 5D2. Western Blot analysis of SF3B2 expression in NIH/3T3 ((Cat # AT3838a)





Immunoperoxidase of monoclonal antibody to SF3B2 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 6 ug/ml]



Immunofluorescence of monoclonal antibody to SF3B2 on HeLa cell. [antibody concentration 60 ug/ml]