

**SAP49 (SF3B4) Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AN1245****Specification**

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**SAP49 (SF3B4) Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">Q15427</a>
Reactivity	Bovine, Human, Mouse, Rat
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b
Calculated MW	49 KDa

**SAP49 (SF3B4) Antibody - Additional Information**

Gene ID	10262
Gene Name	SF3B4

**Other Names**

Splicing factor 3B subunit 4, Pre-mRNA-splicing factor SF3b 49 kDa subunit, SF3b50, Spliceosome-associated protein 49, SAP 49, SF3B4, SAP49

**Target/Specificity**

Recombinant full length human SAP49 expressed in and purified from E. Coli.

**Dilution**

WB~~ 1:2000

IF~~ 1:1000

**Format**

Affinity purified from tissue culture supernatant.

**Antibody Specificity**

Specific for the ~49k SAP49 protein

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SAP49 (SF3B4) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

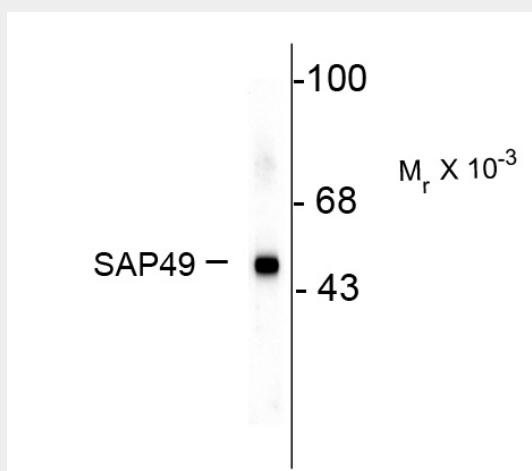
Blue Ice

**SAP49 (SF3B4) Antibody - Protocols**

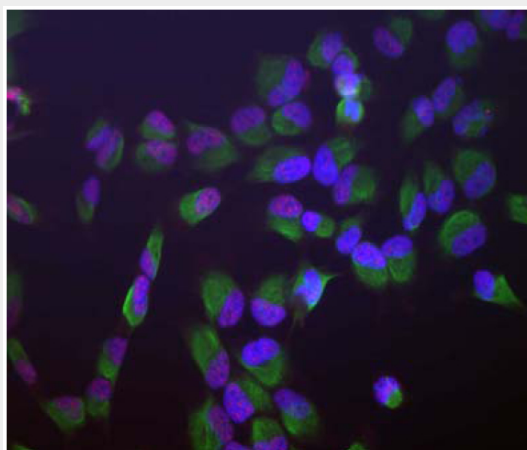
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **SAP49 (SF3B4) Antibody - Images**



Western blot of HeLa lysate showing specific immunolabeling of the ~ 49k SAP49 protein.



Immunofluorescence of HeLa cells showing strong granular nuclear staining of SAP49 in red and vimentin in green.

#### **SAP49 (SF3B4) Antibody - Background**

The spliceosome associated protein of 49 kDa (SAP49), also known as SF3B4, is a widely expressed nuclear splicing factor that has been shown to have RNA binding activity as well as direct interaction with SAP145 (Champion-Arnaud and Reed 1994). The SAP145-SAP49 complex has recently been implicated in cell cycle progression as Vpr (viral protein 1 of HIV-1) has been shown to bind SAP145 thus interfering with the proper formation and functioning of the SAP145-SAP49 complex (Terada and Yasuda 2006).

## **SAP49 (SF3B4) Antibody - References**

Champion-Arnaud P

,

Reed R

. (1994) The prespliceosome components SAP 49 and SAP 145 interact in a complex implicated in tethering U2 snRNP to the branch site. Genes Dev.

8(16):1974-83.

Terada Y

,

Yasuda Y

. (2006) Human immunodeficiency virus type 1 Vpr induces G2 checkpoint activation by interacting with the splicing factor SAP145.

Mol Cell Biol.

26(21):8149-58.