

Goat Anti-SF3B4 / SAP49 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1983a

Specification

Goat Anti-SF3B4 / SAP49 Antibody - Product Information

Application	WB
Primary Accession	Q15427
Other Accession	NP_005841 , 10262 , 107701 (mouse)
Reactivity Predicted	Human Mouse, Rat, Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	44386

Goat Anti-SF3B4 / SAP49 Antibody - Additional Information

Gene ID 10262

Other Names

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

Format

0.5 mg IgG/ml in Tris saline (20mM Tris
pH7.3, 150mM NaCl), 0.02% sodium azide,
with 0.5% bovine serum albumin

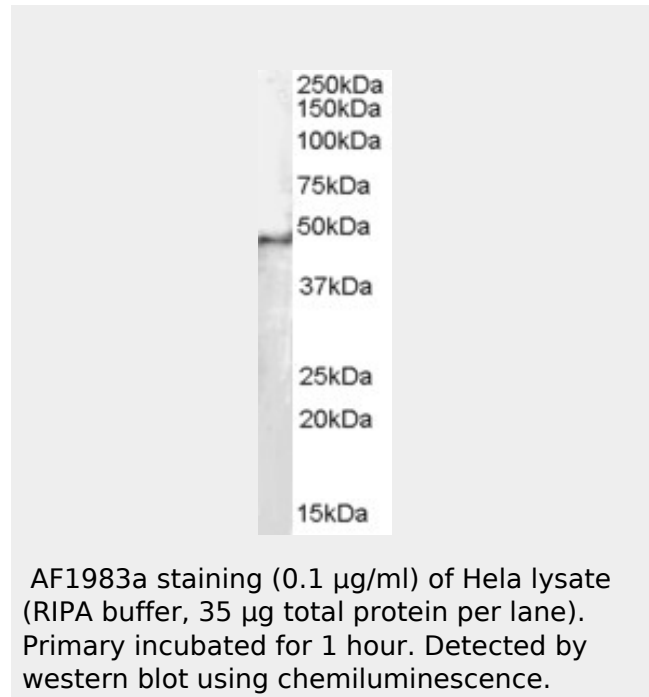
Storage

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

Goat Anti-SF3B4 / SAP49 Antibody is for
research use only and not for use in
diagnostic or therapeutic procedures.

Goat Anti-SF3B4 / SAP49 Antibody - Protein Information



Goat Anti-SF3B4 / SAP49 Antibody - Background

This gene encodes one of four subunits of the splicing factor 3B. The protein encoded by this gene cross-links to a region in the pre-mRNA immediately upstream of the branchpoint sequence in pre-mRNA in the prespliceosomal complex A. It also may be involved in the assembly of the B, C and E spliceosomal complexes. In addition to RNA-binding activity, this protein interacts directly and highly specifically with subunit 2 of the splicing factor 3B. This protein contains two N-terminal RNA-recognition motifs (RRMs), consistent with the observation that it binds directly to pre-mRNA.

Goat Anti-SF3B4 / SAP49 Antibody - References

Many sequence variants affecting diversity of adult human height. Gudbjartsson DF, et al. Nat Genet, 2008 May. PMID 18391951.
Splicing factor 3b subunit 4 binds BMPR-IA and

Name SF3B4**Synonyms** SAP49**Function**

Involved in pre-mRNA splicing as a component of the splicing factor SF3B complex (PubMed:27720643). SF3B complex is required for 'A' complex assembly formed by the stable binding of U2 snRNP to the branchpoint sequence (BPS) in pre-mRNA. Sequence independent binding of SF3A/SF3B complex upstream of the branch site is essential, it may anchor U2 snRNP to the pre-mRNA (PubMed:12234937). May also be involved in the assembly of the 'E' complex. SF3B4 has been found in complex 'B' and 'C' as well (PubMed:10882114). Belongs also to the minor U12- dependent spliceosome, which is involved in the splicing of rare class of nuclear pre-mRNA intron (PubMed:15146077).

Cellular Location

Nucleus

inhibits osteochondral cell differentiation.

Watanabe H, et al. J Biol Chem, 2007 Jul 13. PMID 17513295.

Systematic identification of SH3 domain-mediated human protein-protein interactions by peptide array target screening. Wu C, et al. Proteomics, 2007 Jun. PMID 17474147.

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.

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.

Goat Anti-SF3B4 / SAP49 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](#)