# SAP 130 (E-14): sc-161210



The Power to Question

#### **BACKGROUND**

SF3b is a U2 snRNP-associated protein complex essential for spliceosome assembly. SF3b contains the spliceosomal proteins SAP 49, SAP 130, SAP 145 and SAP 155. SAP 130, SAP 145 and SAP 155 are present in a protein complex in HeLa nuclear extracts and associate with one another. While SAP 155 and SAP 130 interact with each other (directly or indirectly) within this complex, SAP 49 and SAP 145 are known to interact directly with each other. Unexpectedly, the SAP 49-SAP 145 protein-protein interaction requires the amino-terminus of SAP 49, which contains two RNA-recognition motifs. The observation that SAP 49 and SAP 145 interact directly with both U2 snRNP and the pre-mRNA suggests that this protein complex plays a role in tethering U2 snRNP to the branch site.

## **REFERENCES**

- Champion-Arnaud, P. and 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: 1974-1983.
- Wells, S.E., Neville, M., Haynes, M., Wang, J., Igel, H. and Ares, M. Jr. 1996. CUS1, a suppressor of cold-sensitive U2 snRNA mutations, is a novel yeast splicing factor homologous to human SAP 145. Genes Dev. 10: 220-232.
- 3. Igel, H., Wells, S., Perriman, R. and Ares, M. Jr. 1998. Conservation of structure and subunit interactions in yeast homologues of splicing factor 3b (SF3b) subunits. RNA 4: 1-10.
- Das, B.K., Xia, L., Palandjian, L., Gozani, O., Chyung, Y. and Reed, R. 1999. Characterization of a protein complex containing spliceosomal proteins SAPs 49, 130, 145, and 155. Mol. Cell. Biol. 19: 6796-6802.
- Kramer, A., Gruter, P., Groning, K. and Kastner, B. 1999. Combined biochemical and electron microscopic analyses reveal the architecture of the mammalian U2 snRNP. J. Cell Biol. 145: 1355-1368.
- 6. LocusLink Report (Locus ID: 23450) http://www.ncbi.nlm.nih.gov/LocusLink

# CHROMOSOMAL LOCATION

Genetic locus: SAP130 (human) mapping to 2q14.3; Sap130 (mouse) mapping to 18 B1.

# SOURCE

SAP 130 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SAP 130 of human origin.

### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161210 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

SAP 130 (E-14) is recommended for detection of SAP 130 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other SAP family members.

SAP 130 (E-14) is also recommended for detection of SAP 130 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SAP 130 siRNA (h): sc-94536, SAP 130 siRNA (m): sc-153214, SAP 130 shRNA Plasmid (h): sc-94536-SH, SAP 130 shRNA Plasmid (m): sc-153214-SH, SAP 130 shRNA (h) Lentiviral Particles: sc-94536-V and SAP 130 shRNA (m) Lentiviral Particles: sc-153214-V.

Molecular Weight of SAP 130: 110 kDa.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

## **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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