

SAP 49 (m3): 293T Lysate: sc-123349

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

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CHROMOSOMAL LOCATION

Genetic locus: Sf3b4 (mouse) mapping to 3 F2.1.

PRODUCT

SAP 49 (m3): 293T Lysate represents a lysate of mouse SAP 49 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

SAP 49 (m3): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SAP 49 antibodies. Recommended use: 10-20 µl per lane.

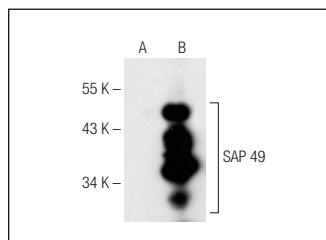
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SAP 49 (G-12): sc-365570 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SAP 49 expression in SAP 49 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

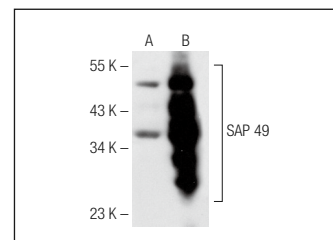
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



SAP 49 (G-12): sc-365570. Western blot analysis of SAP 49 expression in non-transfected: sc-117752 (A) and mouse SAP 49 transfected: sc-123349 (B) 293T whole cell lysates.



SAP 49 (G-3): sc-365571. Western blot analysis of SAP 49 expression in non-transfected: sc-117752 (A) and mouse SAP 49 transfected: sc-123349 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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