

# SAP 62 (D-17): sc-68790

## BACKGROUND

SAP 62, also known as SF3A2 (splicing factor 3A subunit 2), PRP11, PRPF11 or SF3a66, is a 464 amino acid protein that contains one matrin-type zinc finger and belongs to the SF3A2 family. Localized to the nucleus, SAP 62 is a subunit of the SF3A splicing factor, a heterotrimeric complex comprised of three subunits that act in tandem to mediate the binding of U2 snRNP to the branchpoint sequence (BPS) in pre-mRNA. The SF3A complex is necessary for the conversion of 15S U2 snRNP into the active 17S protein that performs directly in pre-mRNA splicing events. Functioning as the second subunit of the complex, SAP 62 interacts with subunit 1 (SAP 114) via its N-terminus while simultaneously binding to 15S U2 snRNP via its zinc finger domain. In addition to its role in RNA splicing, SAP 62 is thought to act independently as a microtubule-binding protein.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SF3A2 (human) mapping to 19p13.3; Sf3a2 (mouse) mapping to 10 C1.

## SOURCE

SAP 62 (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SAP 62 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-68790 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-68790 X, 200 µg/0.1 ml.

## APPLICATIONS

SAP 62 (D-17) is recommended for detection of SAP 62 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).

SAP 62 (D-17) is also recommended for detection of SAP 62 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for SAP 62 siRNA (h): sc-76445, SAP 62 siRNA (m): sc-76446, SAP 62 shRNA Plasmid (h): sc-76445-SH, SAP 62 shRNA Plasmid (m): sc-76446-SH, SAP 62 shRNA (h) Lentiviral Particles: sc-76445-V and SAP 62 shRNA (m) Lentiviral Particles: sc-76446-V.

SAP 62 (D-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of SAP 62: 66 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 or A-431 nuclear extract: sc-2122.

## 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.

## STORAGE

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

## RESEARCH USE

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