**U2AF65 (MC3): sc-53942**

**BACKGROUND**

SF3b is a U2 snRNP-associated protein complex essential for spliceosome assembly. SF3b contains the spliceosomal proteins SAPs 49, 130, 145 and 155. SAPs 130, 145 and 155 associate with one another to form a complex that is present in HeLa nuclear extracts. SAPs 49 and 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. SAP 49 and SAP 145 interact directly with both U2 snRNP and the pre-mRNA, which suggests that this protein complex plays a role in tethering U2 snRNP to the branch site. U2AF recruits SAP 49 to the branch point sequence during the initial steps of spliceosome assembly. U2AF2 exists as a heterodimer consisting of U2AF65 and U2AF35 and is required for splicing in vivo.

**CHROMOSOMAL LOCATION**

Genetic locus: U2AF2 (human) mapping to 19q13.42; U2af2 (mouse) mapping to 7 A1.

**SOURCE**

U2AF65 (MC3) is a mouse monoclonal antibody raised against recombinant U2AF65 of human origin.

**PRODUCT**

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

U2AF65 (MC3) is available conjugated to agarose (sc-53942 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53942 HRP), 200 µg/ml, for WB, IHCP and ELISA; to either phycoerythrin (sc-53942 PE), fluorescein (sc-53942 FITC), Alexa Fluor® 546 (sc-53942 AF546), Alexa Fluor® 594 (sc-53942 AF594) or Alexa Fluor® 647 (sc-53942 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 880 (sc-53942 AF880) or Alexa Fluor® 790 (sc-53942 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

U2AF65 (MC3) is recommended for detection of U2AF65 of mouse, rat, human and Xenopus laevis origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500). Suitable for use as control antibody for U2AF65 siRNA (h): sc-37667, U2AF65 siRNA (m): sc-37668, U2AF65 shRNA Plasmid (h): sc-37667-SH, U2AF65 shRNA Plasmid (m): sc-37668-SH, U2AF65 shRNA (h) Lentiviral Particles: sc-37667-V and U2AF65 shRNA (m) Lentiviral Particles: sc-37668-V.

Molecular Weight of U2AF65: 65 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SK-N-MC nuclear extract: sc-2154 or HEK293 whole cell lysate: sc-45136.

**STORAGE**

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

**DATA**

U2AF65 (MC3) HRP: sc-53942 HRP. Direct western blot analysis of U2AF65 expression in Jurkat (A) and SK-N-MC (B) nuclear extracts and HeLa (C), HEK293 (D), Jurkat (E) and NIH/3T3 (F) whole cell lysates.

U2AF65 (MC3): sc-53942. Immunofluorescence staining of formalin-fixed A-431 cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human fallopian tube tissue showing nuclear staining of glandular cells (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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