scotin (C-7): sc-390725

**BACKGROUND**

Scotin (protein shisha-5), also known as putative NFκB-activating protein 120, is a 240 amino acid single-pass type I membrane protein that localizes to the endoplasmic reticulum and nucleus. Scotin belongs to the shisha protein family and contains a proline-rich domain. Both caspase-dependent and p53/TP53-dependent apoptosis appear to be induced by scotin. Scotin is abundant in murine spleen and thymus tissue. The gene encoding scotin maps to human chromosome 3p21.31, which houses over 1,100 genes, including a chemokine, the apoptosis mediator RASSF 1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA 3B. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SHISA5 (human) mapping to 3p21.31; Shisa5 (mouse) mapping to 9 F2.

**SOURCE**

scotin (C-7) is a mouse monoclonal antibody raised against amino acids 151-192 mapping near the C-terminus of scotin 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.

scotin (C-7) is available conjugated to agarose (sc-390725 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390725 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390725 PE), fluorescein (sc-390725 FITC), Alexa Fluor® 488 (sc-390725 AF488), Alexa Fluor® 546 (sc-390725 AF546), Alexa Fluor® 594 (sc-390725 AF594) or Alexa Fluor® 647 (sc-390725 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390725 AF680) or Alexa Fluor® 790 (sc-390725 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

scotin (C-7) is recommended for detection of scotin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for scotin siRNA (h): sc-78266, scotin siRNA (m): sc-153268, scotin shRNA Plasmid (h): sc-78266-SH, scotin shRNA Plasmid (m): sc-153268-SH, scotin shRNA (lentiviral) Plasmid: sc-78268-V and scotin shRNA (m) Lentiviral Particles: sc-153268-V.

Positive Controls: 3T3-L1 cell lysate: sc-2243, HeLa whole cell lysate: sc-2200 or Hep G2 cell lysate: sc-2227.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG κ B-HRP: sc-516102 or m-IgG κ B-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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ B-FITC: sc-516140 or m-IgG κ B-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

![Western blot analysis of scotin expression in U-251-MG and 3T3-L1 whole cell lysates.](image1)

![Western blot analysis of scotin expression in UV treated HeLa and Hep G2 whole cell lysates.](image2)

**SELECT PRODUCT CITATIONS**


**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.