Ribophorin II (A-1): sc-166421

**BACKGROUND**

Membrane proteins of the endoplasmic reticulum (ER) may be localized by mechanisms that involve retention, retrieval or a combination of both. ER localization information has been found in cytoplasmic, transmembrane or luminal domains. Specific retrieval mechanisms have been identified for luminal ER proteins, which contain a KDEL domain and for type I transmembrane proteins carrying a dilysine motif. Mammalian oligosaccharyltransferase (OST) is a protein complex that is composed of four rough ER-specific, type I transmembrane proteins: Ribophorins I and II (RI and RII), OST48 and DAD1 (also designated defender against apoptotic death). The ribophorins are integral membrane glycoproteins that localize exclusively to the rough ER. There is affinity between the cytoplasmically located N-terminal region of DAD1 and the short cytoplasmic tail of OST48 to place DAD1 firmly into the OST complex. The OST complex affects the cotranslational N-glycosylation of newly synthesized polypeptides.

**CHROMOSOMAL LOCATION**

Genetic locus: RPNZ (human) mapping to 20q11.23; Rpn2 (mouse) mapping to 2 H1.

**SOURCE**

Ribophorin II (A-1) is a mouse monoclonal antibody raised against amino acids 332-631 of Ribophorin II of human origin.

**PRODUCT**

Each vial contains 200 µg IgG₂κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Ribophorin II (A-1) is available conjugated to agarose (sc-166421 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166421 HRP), 200 µg/ml, for WB, (H)P) and ELISA; to either phycoerythrin (sc-166421 PE), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; to HRP (sc-166421 HRP), 200 µg/ml, for WB, IF, IHC(P) and FCM; to Alexa Fluor® 647 (sc-166421 AF647), 200 µg/ml, for WB, IF, IHC(P) and FCM; to either Alexa Fluor® 680 (sc-166421 AF680) or Alexa Fluor® 790 (sc-166421 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Ribophorin II (A-1) is recommended for detection of Ribophorin II 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 Ribophorin II siRNA (h): sc-36422, Ribophorin II shRNA (m): sc-36423, Ribophorin II shRNA Plasmid (h): sc-36422-SH, Ribophorin II shRNA Plasmid (m): sc-36423-SH, Ribophorin II shRNA (h) Lentiviral Particles: sc-36422-V and Ribophorin II shRNA (m) Lentiviral Particles: sc-36423-V.

Molecular Weight of Ribophorin II: 63 KDa.

Positive Controls: KNRK whole cell lysate: sc-2214.

**STORAGE**

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

**DATA**


**SELECT PRODUCT CITATIONS**


**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.

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