BACKGROUND

The mammalian exocyst complex (Sec 6/8) is a multiple protein complex essential for targeting exocytic vesicles to specific docking sites on the plasma membrane. Sec 5 is one of eight exocyst complex subunits: Sec3, Sec5, Sec6, Sec8, Sec10, Sec15, Exo70, and Exo84. Exocyst complex regulation depends upon Sec5 binding Ral in a GTP-dependent manner. Human Sec5 maps to chromosome 6p25.3.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: EXOC2 (human) mapping to 6p25.3; Exoc2 (mouse) mapping to 13 A3.2.

SOURCE

Sec5 (F-7) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Sec5 of human origin.

PRODUCT

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Sec5 (F-7) is available conjugated to agarose (sc-393230 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393230 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycocyanin (sc-393230 PE), fluorescein (sc-393230 FITC), Alexa Fluor® 488 (sc-393230 AF488), Alexa Fluor® 546 (sc-393230 AF546), Alexa Fluor® 594 (sc-393230 AF594) or Alexa Fluor® 647 (sc-393230 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM, and to either Alexa Fluor® 680 (sc-393230 AF680) or Alexa Fluor® 790 (sc-393230 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

RESEARCH USE

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

APPLICATIONS

Sec5 (F-7) is recommended for detection of Sec5 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:1000-1:10000), 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).

Molecular Weight of Sec5: 104 kDa.

Positive Controls: JAR cell lysate: sc-2276, RT-4 whole cell lysate: sc-364257 or A-431 whole cell lysate: sc-2201.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ HRP: sc-516102 or m-IgG κ 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).

DATA

Sec5 (F-7): sc-393230. Western blot analysis of Sec5 expression in human hippocampus tissue extract (A) and JAR (B), RT-4 (C), A-431 (D) and SH-SY5Y (E) whole cell lysates.

STORAGE

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

PROTOCOLS

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