

Exo84 (C-16): sc-160319

BACKGROUND

Exocytosis is crucial in membrane trafficking and it mediates hormone and neurotransmitter secretion out of the cell, as well as the incorporation of membrane proteins and lipids to the plasma membrane. It is crucial for cell-cell communication, cell growth and cell polarity. The exocyst complex is a multi-protein complex that consists of Sec3, Sec5, Sec6, Sec8, Sec10, Sec15, Exo70 and Exo84, and is essential for targeting exocytic vesicles to specific docking sites on the plasma membrane. The exocyst complex inhibits tubulin polymerization *in vitro*, suggesting that the exocyst complex is important for modulating the microtubule dynamics that underlie exocytosis. Exo84 (exocyst complex 84 kDa subunit), also known as exocyst complex component 8, is a 725 amino acid protein that is one of eight protein subunits composing the mammalian exocyst complex. Both Exo84 and Sec5 are effector targets for active Ral GTPases, which are responsible for regulating exocyst complex activities.

CHROMOSOMAL LOCATION

Genetic locus: EXOC8 (human) mapping to 1q42.2; Exoc8 (mouse) mapping to 8 E2.

SOURCE

Exo84 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Exo84 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-160319 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Exo84 (C-16) is recommended for detection of Exo84 of mouse, rat and human 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other Exo family members.

Exo84 (C-16) is also recommended for detection of Exo84 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for Exo84 siRNA (h): sc-88154, Exo84 siRNA (m): sc-144970, Exo84 shRNA Plasmid (h): sc-88154-SH, Exo84 shRNA Plasmid (m): sc-144970-SH, Exo84 shRNA (h) Lentiviral Particles: sc-88154-V and Exo84 shRNA (m) Lentiviral Particles: sc-144970-V.

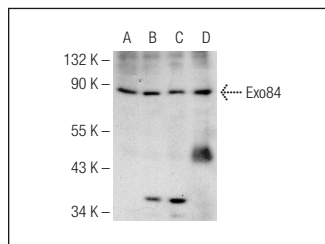
Molecular Weight of Exo84: 84 kDa.

Positive Controls: PC-12 cell lysate: sc-2250, A-375 cell lysate: sc-3811 or NIH/3T3 whole cell lysate: sc-2210.

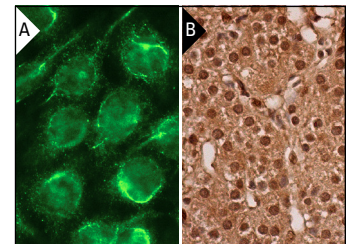
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Exo84 (C-16): sc-160319. Western blot analysis of Exo84 expression in PC-12 (A), A-375 (B), C32 (C) and NIH/3T3 (D) whole cell lysates.



Exo84 (C-16): sc-160319. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human adrenal gland tissue showing cytoplasmic and nuclear staining of glandular cells (B).

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.

PROTOCOLS

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



Try **Exo84 (H-1): sc-515532**, our highly recommended monoclonal alternative to Exo84 (C-16).