

SNX6 (D-5): sc-365965

BACKGROUND

Two related proteins, TRAF1 and TRAF2 (TNF receptor-associated factors 1 and 2, respectively), form a heterodimeric complex that associates with the cytoplasmic domain of the tumor necrosis factor (TNF) receptor type 2. A third member of this family, TRAF3 (also designated CD40bp or CRAF1) associates with the cytoplasmic domain of CD40. Additional members of the TRAF/CRAF family of signaling intermediates include TRAF4 (also designated CART1), TRAF5 and TRAF6. TRAF4 associated factor 2 (TRAF4-AF2), also designated sorting nexin 6 (SNX6), is a member of the sorting nexin family of molecules, which are widely expressed and associate with various receptors.

CHROMOSOMAL LOCATION

Genetic locus: SNX6 (human) mapping to 14q13.1; Snx6 (mouse) mapping to 12 C1.

SOURCE

SNX6 (D-5) is a mouse monoclonal antibody raised against amino acids 1-40 mapping at the N-terminus of SNX6 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.

SNX6 (D-5) is available conjugated to agarose (sc-365965 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365965 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-365965 PE), fluorescein (sc-365965 FITC), Alexa Fluor[®] 488 (sc-365965 AF488), Alexa Fluor[®] 546 (sc-365965 AF546), Alexa Fluor[®] 594 (sc-365965 AF594) or Alexa Fluor[®] 647 (sc-365965 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-365965 AF680) or Alexa Fluor[®] 790 (sc-365965 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

SNX6 (D-5) is recommended for detection of SNX6 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), 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).

SNX6 (D-5) is also recommended for detection of SNX6 in additional species, including bovine.

Suitable for use as control antibody for SNX6 siRNA (h): sc-41357, SNX6 siRNA (m): sc-41358, SNX6 shRNA Plasmid (h): sc-41357-SH, SNX6 shRNA Plasmid (m): sc-41358-SH, SNX6 shRNA (h) Lentiviral Particles: sc-41357-V and SNX6 shRNA (m) Lentiviral Particles: sc-41358-V.

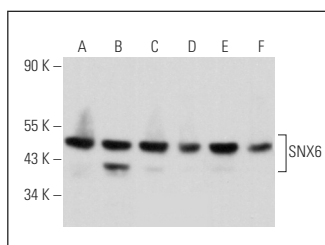
Molecular Weight of SNX6: 47 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, HeLa whole cell lysate: sc-2200 or A549 cell lysate: sc-2413.

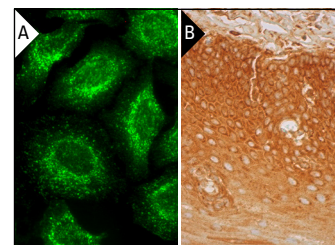
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-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-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



SNX6 (D-5): sc-365965. Western blot analysis of SNX6 expression in HeLa (A), Jurkat (B), A549 (C), A-431 (D) and K-562 (E) whole cell lysates and rat brain tissue extract (F).



SNX6 (D-5): sc-365965. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing cytoplasmic staining of squamous epithelial cells (B).

SELECT PRODUCT CITATIONS

- Simonetti, B., et al. 2017. Sequence-dependent cargo recognition by SNX-BARs mediates retromer-independent transport of CI-MPR. *J. Cell Biol.* 216: 3695-3712.
- Niu, Y., et al. 2017. Ablation of SNX6 leads to defects in synaptic function of CA1 pyramidal neurons and spatial memory. *Elife* 6: e20991.
- Waschbüsch, D., et al. 2019. Rab32 interacts with SNX6 and affects retromer-dependent Golgi trafficking. *PLoS ONE* 14: e0208889.
- Han, J., et al. 2020. Involvement of CASP9 (caspase 9) in IGF2R/CI-MPR endosomal transport. *Autophagy*. E-published.

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 for detailed protocols and support products.