

SNX27 (Y-14): sc-162251

BACKGROUND

Sorting nexin (SNX) proteins are members of a large family of hydrophilic proteins that interact with a variety of receptor types, are involved in intracellular trafficking and contain a characteristic phox homology (PX) domain. SNX27, a 541 amino acid protein localized to the cytoplasm and early endosome, contains the characteristic PX domain, a Ras-associating domain and a PDZ domain, which is responsible for vesicular localization. Expressed in cells of hematopoietic origin, SNX27 recruits CYTIP and SR-4 to participate in endocytic trafficking and recycling pathways. Four named isoforms of SNX27 exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SNX27 (human) mapping to 1q21.3; Snx27 (mouse) mapping to 3 F2.1.

SOURCE

SNX27 (Y-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SNX27 of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162251 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SNX27 (Y-14) is recommended for detection of SNX27 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other SNX family members.

SNX27 (Y-14) is also recommended for detection of SNX27 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SNX27 siRNA (h): sc-88812, SNX27 siRNA (m): sc-153673, SNX27 shRNA Plasmid (h): sc-88812-SH, SNX27 shRNA Plasmid (m): sc-153673-SH, SNX27 shRNA (h) Lentiviral Particles: sc-88812-V and SNX27 shRNA (m) Lentiviral Particles: sc-153673-V.

Molecular Weight of SNX27: 61 kDa.

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) 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.

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.