

SNX29 (4B12): sc-134432

BACKGROUND

SNX29 (sorting nexin-29), also known as RUNDC2A, is an 813 amino acid protein that contains one PX (phox homology) domain and one RUN domain. SNX29 exists as two alternatively spliced isoforms and belongs to the sorting nexin family. The gene that encodes SNX29 consists of more than 522,000 bases and maps to human chromosome 16p13.13. Encoding over 900 genes and consisting of approximately 90 million base pairs, chromosome 16 makes up nearly 3% of the human genome and is associated with a variety of genetic disorders, such as giant axonal neuropathy, Rubinstein-Taybi syndrome and Crohn's disease. An association with systemic lupus erythematosus and a number of other autoimmune disorders with the pericentromeric region of chromosome 16 has led to the identification of SLC5A11 as a potential autoimmune modifier.

REFERENCES

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4. Bomont, P., et al. 2000. The gene encoding gigaxonin, a new member of the cytoskeletal BTB/kelch repeat family, is mutated in giant axonal neuropathy. *Nat. Genet.* 26: 370-374.
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CHROMOSOMAL LOCATION

Genetic locus: SNX29 (human) mapping to 16p13.13; Snx29 (mouse) mapping to 16 A1.

SOURCE

SNX29 (4B12) is a mouse monoclonal antibody raised against recombinant RUNDC2A protein of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

SNX29 (4B12) is recommended for detection of SNX29 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SNX29 siRNA (h): sc-93271, SNX29 siRNA (m): sc-153674, SNX29 shRNA Plasmid (h): sc-93271-SH, SNX29 shRNA Plasmid (m): sc-153674-SH, SNX29 shRNA (h) Lentiviral Particles: sc-93271-V and SNX29 shRNA (m) Lentiviral Particles: sc-153674-V.

Molecular Weight (predicted) of SNX29 isoforms: 91/89 kDa.

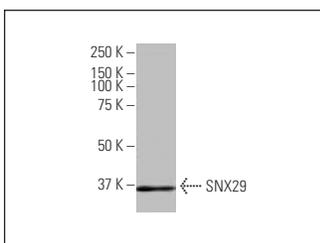
Molecular Weight (observed) of SNX29 isoforms: 37-46 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210 or Hep G2 cell lysate: sc-2227.

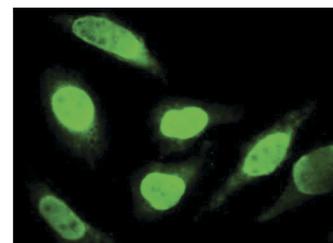
RECOMMENDED SUPPORT REAGENTS

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.

DATA



SNX29 (4B12): sc-134432. Western blot analysis of SNX29 expression in NIH/3T3 whole cell lysate.



SNX29 (4B12): sc-134432. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

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.