

SNX29 (E-3): sc-514318



The Power to Question

BACKGROUND

SNX29 (sorting nexin-29), also known as RUNC2A, 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

1. Mentzer, W.C., et al. 1977. An unusual form of chronic neutropenia in a father and daughter with hypogammaglobulinaemia. *Br. J. Haematol.* 36: 313-322.
2. Baraitser, M. and Preece, M.A. 1983. The Rubinstein-Taybi syndrome: occurrence in two sets of identical twins. *Clin. Genet.* 23: 318-320.
3. Breuning, M.H., et al. 1993. Rubinstein-Taybi syndrome caused by sub-microscopic deletions within 16p13.3. *Am. J. Hum. Genet.* 52: 249-254.

CHROMOSOMAL LOCATION

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

SOURCE

SNX29 (E-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 202-229 within an internal region of SNX29 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SNX29 (E-3) is available conjugated to agarose (sc-514318 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514318 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514318 PE), fluorescein (sc-514318 FITC), Alexa Fluor® 488 (sc-514318 AF488), Alexa Fluor® 546 (sc-514318 AF546), Alexa Fluor® 594 (sc-514318 AF594) or Alexa Fluor® 647 (sc-514318 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514318 AF680) or Alexa Fluor® 790 (sc-514318 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-514318 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

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

APPLICATIONS

SNX29 (E-3) is recommended for detection of SNX29 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).

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.

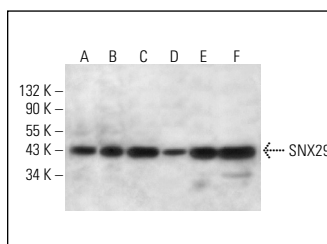
Molecular Weight (observed) of SNX29: 37-46 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, Jurkat whole cell lysate: sc-2204 or Hep G2 cell lysate: sc-2227.

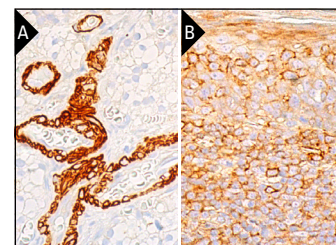
RECOMMENDED SUPPORT REAGENTS

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. 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



SNX29 (E-3): sc-514318. Western blot analysis of SNX29 expression in K-562 (A), Jurkat (B), NIH/3T3 (C), Hep G2 (D), MDA-MB-435S (E) and RT-4 (F) whole cell lysates.



SNX29 (E-3): sc-514318. Immunoperoxidase staining of formalin fixed, paraffin-embedded human parathyroid gland showing membrane and cytoplasmic staining of smooth muscle cells (A), and of human tonsil showing membrane and cytoplasmic staining of cells in non-germinal center and squamous epithelial cells (B). Blocked with 0.25X UltraCruz® Blocking Reagent: sc-516214. Detected with m-IgGκ BP-B: sc-516142 and ImmunoCruz® ABC Kit: sc-516216.

RESEARCH USE

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

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