

Syne-1 (N-19): sc-51217

BACKGROUND

Synaptic nuclear envelope protein-1 (Syne-1) is a member of the Golgi- and nuclear envelope-localized spectrin family, and it facilitates retrograde vesicular trafficking from the Golgi to the ER. Syne-1 is a 8,797 amino acid protein that contains several spectrin repeats similar to those in dystrophin and utrophin, 2 tandem calponin homology domains at its N-terminus, as well as a domain that is homologous to the C-terminal of Klarsicht, a *Drosophila* protein associated with nuclei and necessary for a few nuclear migrations. Syne-1 localizes to the Golgi apparatus and nuclear envelope until cytokinesis, when it migrates to the central spindle and midbody, where it functions together with KIF3B to assist the accumulation of the membrane vesicles at the spindle midbody.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SYNE1 (human) mapping to 6q25.1; Syne1 (mouse) mapping to 10 A1.

SOURCE

Syne-1 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Syne-1 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-51217 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Syne-1 (N-19) is recommended for detection of Syne-1 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).

Syne-1 (N-19) is also recommended for detection of Syne-1 in additional species, including equine.

Suitable for use as control antibody for Syne-1 siRNA (h): sc-61628, Syne-1 siRNA (m): sc-61629, Syne-1 shRNA Plasmid (h): sc-61628-SH, Syne-1 shRNA Plasmid (m): sc-61629-SH, Syne-1 shRNA (h) Lentiviral Particles: sc-61628-V and Syne-1 shRNA (m) Lentiviral Particles: sc-61629-V.

Molecular Weight of Syne-1: 112 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.

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 **Syne-1 (3G2): sc-293465**, our highly recommended monoclonal alternative to Syne-1 (N-19).