

NORRIN (S-20): sc-49311

BACKGROUND

The NDP (Norrie disease protein) gene encodes the secreted NORRIN protein. Mutations in this gene lead to Norrie disease, a rare X-linked disorder characterized by congenital blindness, deafness and mental retardation. X-linked familial exudative vitreoretinopathy (XL-FEVR), an ocular disorder characterized by a failure of peripheral retinal vascularization, is also associated with mutations in the NDP gene. NORRIN utilizes the Wnt/Frizzled signaling pathway and plays a role in vascular development. Research indicates that it induces growth of ocular capillaries and that pharmacologic regulation of NORRIN may be useful for treatment of the vascular abnormalities associated with Norrie disease or other vascular disorders of the retina.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NDP (human) mapping to Xp11.3; Ndph (mouse) mapping to X A1.2.

SOURCE

NORRIN (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NORRIN 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-49311 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

NORRIN (S-20) is recommended for detection of NORRIN 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).

NORRIN (S-20) is also recommended for detection of NORRIN in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for NORRIN siRNA (h): sc-61217, NORRIN siRNA (m): sc-61218, NORRIN shRNA Plasmid (h): sc-61217-SH, NORRIN shRNA Plasmid (m): sc-61218-SH, NORRIN shRNA (h) Lentiviral Particles: sc-61217-V and NORRIN shRNA (m) Lentiviral Particles: sc-61218-V.

Molecular Weight of NORRIN: 15 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.



Try **NORRIN (B-8): sc-377276**, our highly recommended monoclonal alternative to NORRIN (S-20).