NORRIN (B-8): sc-377276



The Power to Question

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

- Katoh, M., et al. 2005. Comparative genomics on Norrie disease gene. Int. J. Mol. Med. 15: 885-889.
- 2. Luhmann, U.F., et al. 2005. Fetal loss in homozygous mutant Norrie disease mice: a new role of NORRIN in reproduction. Genesis 42: 253-262.
- Luhmann, U.F., et al. 2005. Role of the Norrie disease pseudoglioma gene in sprouting angiogenesis during development of the retinal vasculature. Invest. Ophthalmol. Vis. Sci. 46: 3372-3382.
- Ohlmann, A., et al. 2005. Ectopic NORRIN induces growth of ocular capillaries and restores normal retinal angiogenesis in Norrie disease mutant mice. J. Neurosci. 25: 1701-1710.
- Riveiro-Alvarez, R., et al. 2005. Genotype-phenotype variations in five Spanish families with Norrie disease or X-linked FEVR. Mol. Vis. 11: 705-712.

CHROMOSOMAL LOCATION

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

SOURCE

NORRIN (B-8) is a mouse monoclonal antibody raised against amino acids 1-133 representing full length NORRIN of human origin.

PRODUCT

Each vial contains 200 $\mu g \; lgG_{2b}$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

NORRIN (B-8) is available conjugated to agarose (sc-377276 AC), 500 μ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-377276 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377276 PE), fluorescein (sc-377276 FITC), Alexa Fluor* 488 (sc-377276 AF488), Alexa Fluor* 546 (sc-377276 AF546), Alexa Fluor* 594 (sc-377276 AF594) or Alexa Fluor* 647 (sc-377276 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor* 680 (sc-377276 AF680) or Alexa Fluor* 790 (sc-377276 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

RESEARCH USE

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

APPLICATIONS

NORRIN (B-8) is recommended for detection of NORRIN of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 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.

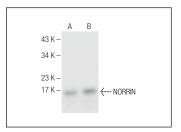
Molecular Weight of NORRIN: 15 kDa.

Positive Controls: mouse eye extract: sc-364241 or rat eye extract: sc-364805.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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-lgG κ BP-FITC: sc-516140 or m-lgG κ 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



NORRIN (B-8): sc-377276. Western blot analysis of NORRIN expression in mouse eye (**A**) and rat eye (**B**) tissue extracts

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.

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