

NELF (E-14): sc-160577

BACKGROUND

NELF (nasal embryonic luteinizing hormone-releasing hormone (LHRH) factor) is a 530 amino acid transcription factor involved in the migration of LHRH neurons, outgrowth of olfactory axons and suppression of transcription elongation. Known to couple NMDA receptor signaling to the nucleus, NELF displays both nuclear peripheral membrane localization, and when myristoylated, can localize outside of the nucleus. NELF is found in the peripheral and central nervous system during embryonic development, and is highly expressed in adult testis, kidney and brain. Existing as five alternatively spliced isoforms, the gene encoding NELF maps to human chromosome 9q34.3, which has been linked to the development of Idiopathic hypogonadotropic hypogonadism (IHH), a disorder resulting in impaired pubertal maturation and reproductive function.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NELF (human) mapping to 9q34.3; Nelf (mouse) mapping to 2 A3.

SOURCE

NELF (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NELF 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-160577 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NELF (E-14) is recommended for detection of NELF 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); non cross-reactive with other NELF family members.

NELF (E-14) is also recommended for detection of NELF in additional species, including equine, canine and bovine.

Suitable for use as control antibody for NELF siRNA (h): sc-92594, NELF siRNA (m): sc-149907, NELF shRNA Plasmid (h): sc-92594-SH, NELF shRNA Plasmid (m): sc-149907-SH, NELF shRNA (h) Lentiviral Particles: sc-92594-V and NELF shRNA (m) Lentiviral Particles: sc-149907-V.

Molecular Weight of NELF isoforms: 60/57/44 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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.