



NFXL1 (N-15): sc-243610

BACKGROUND

NFXL1 (nuclear transcription factor, X-box binding-like 1), also known as HOZFP or URCC5, is a 911 amino acid single-pass membrane protein belonging to the NFX1 family and contains ten NF-X1-type zinc fingers and one RING-type zinc finger. NFXL1 may have similar characteristics as transcriptional repressor NFX1, a close family member. A ubiquitously expressed nucleic acid binding protein, NFX1 binds to the conserved X1 region within the X-box motif found in the promoter region of MHC class II genes. Acting as a potent repressor of MHC class II gene expression, NFX1 may be involved in regulating the duration of an inflammatory response. This suggests that NFX1 could be a useful target in the treatment of various diseases involving inflammation and autoimmunity. NFX1 is encoded by a gene located on human chromosome 9 while NFXL1 is encoded by a gene located on human chromosome 4. NFXL1 is expressed as two alternatively spliced isoforms.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NFXL1 (human) mapping to 4p12.

STORAGE

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

SOURCE

NFXL1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of NFXL1 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-243610 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NFXL1 (N-15) is recommended for detection of NFXL1 of 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).

Suitable for use as control antibody for NFXL1 siRNA (h): sc-89312, NFXL1 shRNA Plasmid (h): sc-89312-SH and NFXL1 shRNA (h) Lentiviral Particles: sc-89312-V.

Molecular Weight of NFXL1: 101 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.