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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

NFX1 (h2): 293T Lysate: sc-171830

BACKGROUND

NFX1 (nuclear transcription factor, X-box binding 1), also known as NFX2, is a ubiquitously expressed nucleic acid binding protein. Localizing to the nucleus, NFX1 contains an R3H domain, a RING-type zinc finger and nine NFX1-type zinc fingers. NFX1 is induced by IFN- γ and functions as a transcriptional repressor, binding 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. In addition, due to the presence of a RING-type zinc finger domain, NFX1 may also function as an E3 ubiquitin-protein ligase. Two NFX1 isoforms, namely NFX1-91 and NFX1-123, exist due to alternative splicing events and differ in their C-termini.

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CHROMOSOMAL LOCATION

Genetic locus: NFX1 (human) mapping to 9p13.3.

RESEARCH USE

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

PRODUCT

NFX1 (h2): 293T Lysate represents a lysate of human NFX1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

NFX1 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive NFX1 antibodies. Recommended use: 10-20 μ l per lane.

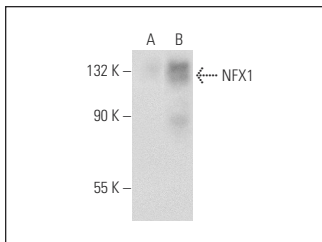
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

NFX1 (Y-14): sc-100973 is recommended as a positive control antibody for Western Blot analysis of enhanced human NFX1 expression in NFX1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



NFX1 (Y-14): sc-100973. Western blot analysis of NFX1 expression in non-transfected: sc-117752 (A) and human NFX1 transfected: sc-171830 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.