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RFXAP (h2): 293T Lysate: sc-170250

BACKGROUND

The regulatory factor X (RFX) proteins include RFX1-5, RFX-B/Ank and RFX-associated protein (RFXAP). RFX proteins are essential class II transcription factors and activate the enhancer elements of several hepatitis B virus genes as well as promote the induction of MHC class II genes in response to interferon- γ stimulation. Structural characteristics of the RFX family include a centrally located DNA-binding domain (DBD) and a C-terminal D region that facilitates dimerization. RFX5, RFX-B/Ank and RFXAP comprise the RFX trimer, which binds to X and S boxes in MHC class II promoters. Even though RFXAP lacks a DNA-binding domain, RFXAP and RFX-B/Ank are essential to the RFX DNA-binding function. The RFXAP interacts specifically with RFX5. Loss of RFXAP function is linked to MHC class II deficiency disease class D. The gene encoding human RFXAP maps to chromosome 13q13.3.

REFERENCES

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3. Masternak, K., Barras, E., Zufferey, M., Conrad, B., Corthals, G., Aebersold, R., Sanchez, J.C., Hochstrasser, D.F., Mach, B. and Reith, W. 1998. A gene encoding a novel RFX-associated transactivator is mutated in the majority of MHC class II deficiency patients. *Nat. Genet.* 20: 273-277.
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5. Nekrep, N., Jabrane-Ferrat, N. and Peterlin, B.M. 2000. Mutations in the bare lymphocyte syndrome define critical steps in the assembly of the regulatory factor X complex. *Mol. Cell. Biol.* 20: 4455-4461.
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CHROMOSOMAL LOCATION

Genetic locus: RFXAP (human) mapping to 13q13.3.

PRODUCT

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

APPLICATIONS

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

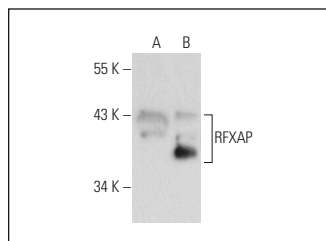
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RFXAP (RFXAD55A): sc-81368 is recommended as a positive control antibody for Western Blot analysis of enhanced human RFXAP expression in RFXAP transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

DATA



RFXAP (RFXAD55A): sc-81368. Western blot analysis of RFXAP expression in non-transfected: sc-117752 (A) and human RFXAP transfected: sc-170250 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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