

# RFX5 (H-300): sc-48808

## BACKGROUND

EP is a regulatory enhancer element found in several promoters on viral genes, and similar sites are also present in cellular genes, including the MIF-1 binding site (MIE) of the human c-Myc gene, the X box of MHC class II promoters and a binding site in the proliferating cell nuclear antigen promoter. The EP sites present in the X box of MHC class II promoters are distinctly non-palindromic sequences that contain only a single EP-homologous half-site. The EP element is bound by an ubiquitous nuclear protein complex that consists of homo- and heterodimers involving the RFX1, RFX2 and RFX3 proteins. The RFX proteins represent an essential class II transcription factor family that shares several conserved regions, including the centrally located DNA-binding domain (DBD) and the D region found in the C-terminal part of these proteins which facilitates dimerization. RFX complexes can activate the enhancer elements of several HBV genes and also promote the induction of MHC class II genes in response to interferon- $\gamma$  stimulation. Two additional subunits, RFX5, RFX-B/Ank, are also involved in the RFX complexes, yet they bind additional elements in the X1 half of the X box.

## CHROMOSOMAL LOCATION

Genetic locus: RFX5 (human) mapping to 1q21.3; Rfx5 (mouse) mapping to 3 F2.1.

## SOURCE

RFX5 (H-300) is a rabbit polyclonal antibody raised against amino acids 161-460 mapping within an internal region of RFX5 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-48808 X, 200  $\mu$ g/0.1 ml.

## APPLICATIONS

RFX5 (H-300) is recommended for detection of RFX5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

RFX5 (H-300) is also recommended for detection of RFX5 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for RFX5 siRNA (h): sc-37747, RFX5 siRNA (m): sc-37748, RFX5 shRNA Plasmid (h): sc-37747-SH, RFX5 shRNA Plasmid (m): sc-37748-SH, RFX5 shRNA (h) Lentiviral Particles: sc-37747-V and RFX5 shRNA (m) Lentiviral Particles: sc-37748-V.

RFX5 (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

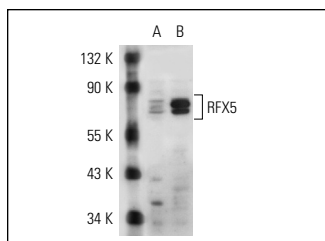
Molecular Weight of RFX5: 75 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132 or RFX5 (h): 293 lysate: sc-111879.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941.

## DATA



RFX5 (H-300): sc-48808. Western blot analysis of RFX5 expression in non-transfected: sc-110760 (A) and human RFX5 transfected: sc-111879 (B) 293 whole cell lysates.

## SELECT PRODUCT CITATIONS

- Zhong, G., et al. 2001. Identification of a chlamydial protease-like activity factor responsible for the degradation of host transcription factors. *J. Exp. Med.* 193: 935-942.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



**MONOS**  
Satisfaction  
Guaranteed

Try **RFX5 (C-3): sc-271756** or **RFX5 (A-10): sc-271757**, our highly recommended monoclonal alternatives to RFX5 (H-300).