

RFX1 Antibody
Catalog # ASC11932**Specification**

RFX1 Antibody - Product Information

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Isotype
Calculated MW

WB
[P22670](#)
[NP_002909](#), [238859557](#)
Human
Rabbit
Polyclonal
IgG
Predicted: 108 kDa

Application Notes

Observed: 125 kDa KDa
RFX1 antibody can be used for detection of RFX1 by Western blot at 1 - 2 µg/ml.

RFX1 Antibody - Additional Information

Gene ID **5989**

Target/Specificity

RFX1; RFX1 antibody is human specific. At least two isoforms of RFX1 are known to exist; this antibody will detect both isoforms.

Reconstitution & Storage

RFX1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

RFX1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RFX1 Antibody - Protein Information

Name RFX1

Function

Regulatory factor essential for MHC class II genes expression. Binds to the X boxes of MHC class II genes. Also binds to an inverted repeat (ENH1) required for hepatitis B virus genes expression and to the most upstream element (alpha) of the RPL30 promoter.

Cellular Location

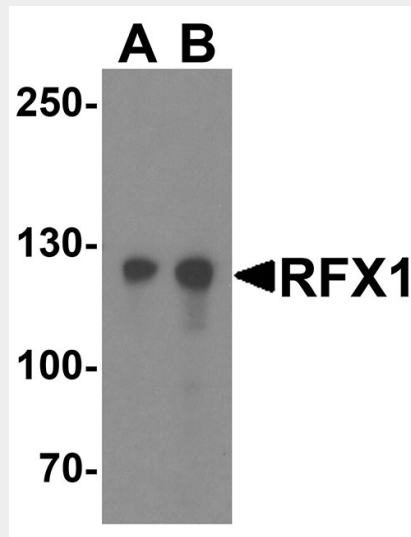
Nucleus.

RFX1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RFX1 Antibody - Images



Western blot analysis of RFX1 in HeLa cell lysate with RFX1 antibody at (A) 1 and (B) 2 μ g/ml.

RFX1 Antibody - Background

RFX1 is a member of the regulatory factor X protein family, which are transcription factors that contain a highly-conserved winged helix DNA binding domain and the D region found in the C-terminal part of these proteins which facilitates dimerization (1,2). RFX1 is structurally related to regulatory factors X2, X3, X4, and X5 (3). RFX1 is a regulatory factor essential for MHC class II genes expression and can bind to an inverted repeat that is required for expression of hepatitis B virus genes (4). Recent study identifies RFX1 may play a tumor suppressor role in HCC as autophagy mediator (5).

RFX1 Antibody - References

- Reith W, UCLA C, Barras E, et al. RFX1, a transactivator of hepatitis B virus enhancer I, belongs to a novel family of homodimeric and heterodimeric DNA-binding proteins. *Mol. Cell Biol.* 1994; 14:1230-44.
- Katan-Khaykovich Y and Shaul Y. RFX1, a single DNA-binding protein with a split dimerization domain, generates alternative complexes. *J. Biol. Chem.* 1998; 273:24504-12.
- Hsu YC, Liao WC, Kao CY, et al. Regulation of FGF1 gene promoter through transcription factor RFX1. *J. Biol. Chem.* 2010; 285:13885-95.
- Su JC, Tseng PH, Hsu CY, et al. RFX1-dependent activation of SHP-1 induces autophagy by a novel obatoclax derivative in hepatocellular carcinoma cells. *Oncotarget* 2014; 5:4909-19.