

Datasheet for 200-401-193**RFX5 Antibody****Overview**

Description:	Anti-RFX5 (N-terminal) (RABBIT) Antibody - 200-401-193
Item No.:	200-401-193
Size:	100 µg
Applications:	ELISA, WB, ChIP, EMSA
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	DNA-binding protein RFX5 activates transcription from class II MHC promoters and recognizes X-boxes. It mediates cooperative binding between RFX and NF-Y. RFX binds the X1 box of MHC-II promoters. RFX5 may be associated with Bare Lymphocyte Syndrome Type II Complement group C and Mhc Class II Deficiency. Anti-RFX5 Antibody is useful for researchers interested in Transcription factors, Tuberculosis, and Allograft rejection.
Synonyms:	rabbit anti-RFX5 antibody, DNA binding protein RFX 5 antibody, Influences HLA class II expression antibody, Regulatory factor X 5 antibody, Regulatory factor X subunit 5 antibody, Regulatory factor X 5 (influences HLA class II expression) antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RFX5
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	RFX5 (N-terminal specific) peptide corresponding to a region near the N-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).

Purity/Specificity: This product was prepared from monospecific antiserum by delipidation, salt fractionation and ion exchange chromatography. Anti-RFX5 (N-terminal specific) may react with unknown minor bands at 55 kDa and 85 kDa.

Relevant Links:

- [NCBI - CA072162.1](#)
- [UniProtKB - P48382](#)
- [GeneID - 5993](#)

Application Details

Tested Applications: ELISA, WB

Suggested Applications: ChIP, EMSA (Based on references)

Application Note: This product was assayed by immunoblot and found to be reactive against RFX5 (N-terminal specific) from a variety of fibroblast and B-cell lysates at a dilution of 1:500 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. Anti-RFX5 (N-terminal specific) is suitable for the detection by immunoblot of human RFX5 as shows a 75 kDa band. This product was also tested in a gel supershift assay and found to be reactive against RFX5 complexes using 0.5 to 1.0 μ l per assay.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5,000 - 1:25,000

EMSA: 0.5 to 1.0 μ l

WB: 1:500 - 1:3,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

Shipping & Handling

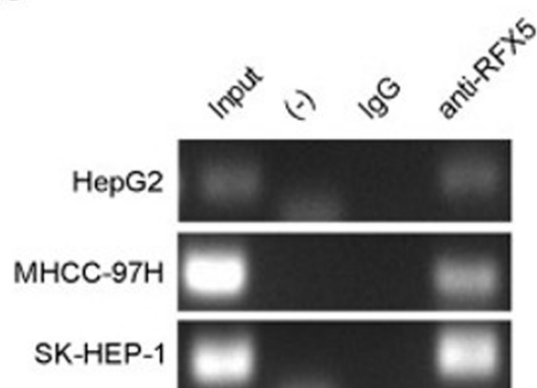
Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

C



Western Blot

RFX5 binds to the promoter region and activates transcription of the KDM4A genes in HCC cells. (C) Immunoprecipitated DNA fragments produced by anti-RFX5 were subjected to PCR assay with primers that can detect the RFX5 binding peak site in the KDM4A promoter region which was determined by ChIP-seq. Consistent with ChIP-seq data, KDM4A promoter region was detected by PCR in the elution of anti-RFX5 in SK-HEP-1, MHCC-97H, and HepG2 cells, but not in the elution of control IgG (normal rabbit IgG p/n 011-0102). Figure 2. PMID: 32883983.

References

- Chen, DB et al. RFX5 promotes the progression of hepatocellular carcinoma through transcriptional activation of KDM4A. *Scientific Reports* (2020)
- Stavride P et al. Differential regulation of MHCII genes by PRMT6, via an AT-hook motif of RFX5. *Mol Immunol.* (2013)
- Brickey WJ et al. Analysis of the defect in IFN-gamma induction of MHC class II genes in G1B cells: identification of a novel and functionally critical leucine-rich motif (62-LYLYLQL-68) in the regulatory factor X 5 transcription factor. *J Immunol.* (1999)
- Gobin SJ et al. The RFX complex is crucial for the constitutive and CIITA-mediated transactivation of MHC class I and $\beta 2$ -microglobulin genes. *Immunity.* (1998)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.