Datasheet for 100-401-191

RFX5 Antibody

Overview

Description:	Anti-RFX5 (C-terminal) (RABBIT) Antibody - 100-401-191
Item No.:	100-401-191
Size:	100 µL
Applications:	WB, ChIP, EMSA, IP
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 Complementation 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 RFX5, Regulatory factor X 5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	RFX5
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	RFX5 (C-terminal specific) peptide corresponding to a region near the C-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This product was prepared from monospecific antiserum by delipidation and defibrination.
Relevant Links:	• NCBI - CAO72162.1

- UniProtKB - P48382
- GeneID - 5993

Application Details

Tested Applications:	WB
Suggested Applications:	ChIP, EMSA, IP (Based on references)
Application Note:	This product was tested by immunoblot and found to be reactive against RFX5 (C-terminal specific) at a dilution of 1:250 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. Anti-RFX5 (C-terminal specific) is suitable for the detection by immunoblot of human RFX5. This product was also tested in a gel supershift assay and found to be reactive against RFX5 using 0.5 to 1.0 µl 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
WB:	1:500 - 1:3,000

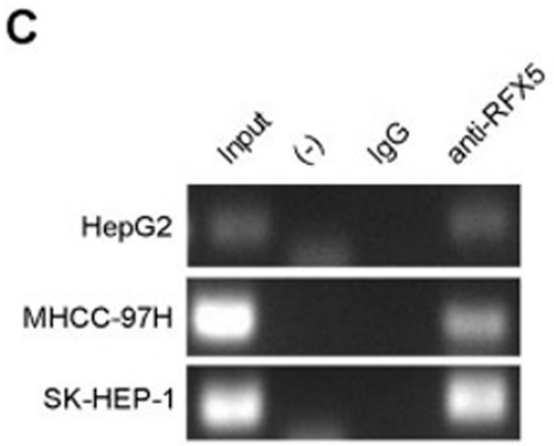
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	90 mg/mL by Refractometry
Buffer:	None
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



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)
- Moreno CS et al. Regulatory factor X, a bare lymphocyte syndrome transcription factor, is a multimeric phosphoprotein complex. *J Immunol.* (1997)

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.