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Datasheet for 100-401-193

RFX5 Antibody

Overview

Description:	Anti-RFX5 (N-terminal) (RABBIT) Antibody - 100-401-193
Item No.:	100-401-193
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 antibody, Influences HLA class II expression antibody, Regulatory factor X 5 antibody, Regulatory factor X subunit 5 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

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 and defibrination. Anti-RFX5 (N-terminal specific) may react with unknown minor bands at 55 kDa and 85 kDa.

Relevant Links:

- NCBI - CAO72162.1
- UniProtKB - P48382
- GeneID - 5993

Application Details

Tested Applications:	WB
Suggested Applications:	ChIP, EMSA, IP (Based on references)
Application Note:	Anti-RFX5 has been tested in western blot. This product was also tested in a gel supershift assay and found to be reactive against RFX5 complexes 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

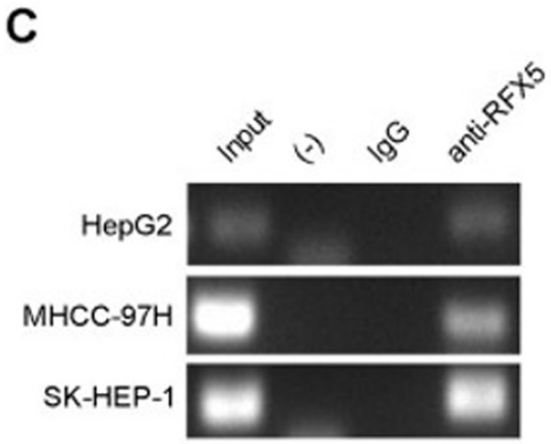
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	90 mg/mL by 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

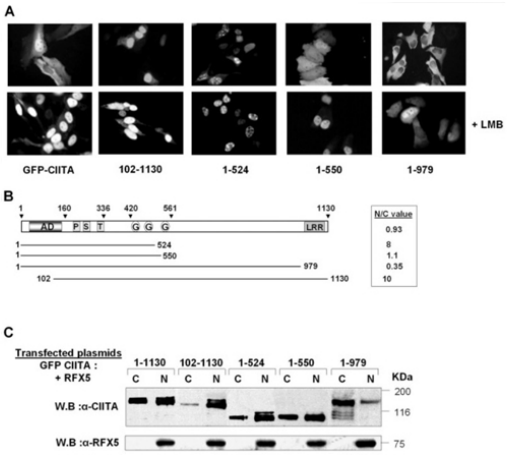
Shipping & Handling

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.

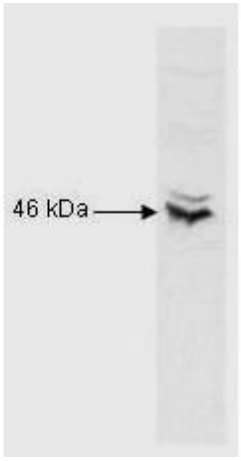
Images



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.



Western Blot
Opposing effects of CIITA truncations on nuclear import and LMB mediated nuclear retention.
A. GFP fusions of the indicated regions of CIITA were transfected into HeLa cells. GFP-CIITA is the full-length (amino acids 1–1130) protein. Green fluorescence was observed 24 h later either without treatment or following a 2-h treatment with 20 nm leptomycin B (+LMB). B. schematic view of CIITA and truncation end points. The activation domain (AD), GTP binding motifs (GTP), nuclear import signals (NLS), and the leucine-rich region (LRR) are indicated. Shown on the right are the corresponding nuclear/cytoplasmic ratios obtained by the Scion Beta 4 image analysis program, and the values represent averages from at least 50 cells. C. cytoplasmic (C) and nuclear (N) fractions were prepared from HeLa cells transfected with 5 µg of the indicated GFP CIITA derivatives and 1.5 µg of an RFX5 expressing plasmid. Western blotting was performed using either α-CIITA (p/n 100-401-249) or α-RFX5 (p/n 100-401-193) antibodies. Fig 1. PMID: 11413136



Western Blot
Western Blot of Rabbit Anti-RFX5 antibody. Lane 1: nuclear extract lysates. Load: 10µg per lane. Primary antibody: RFX5 antibody at 1:1000 for overnight at 4°C. Secondary antibody: HRP Goat-a-Rabbit IgG secondary antibody at 1:5,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 65 kDa, 46 kDa for RFX5. Other band(s): none.

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)

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