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RFXANK Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16143c

Product Information

Application	WB, E
Primary Accession	O14593
Other Accession	NP_604389.1, NP_003712.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35361
Calculated MW	28102
Antigen Region	94-123

Additional Information

Gene ID	8625
Other Names	DNA-binding protein RFXANK, Ankyrin repeat family A protein 1, Regulatory factor X subunit B, RFX-B, Regulatory factor X-associated ankyrin-containing protein, RFXANK, ANKRA1, RFXB
Target/Specificity	This RFXANK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 94-123 amino acids from the Central region of human RFXANK.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RFXANK Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RFXANK
Synonyms	ANKRA1, RFXB

Function	Activates transcription from class II MHC promoters. Activation requires the activity of the MHC class II transactivator/CIITA. May regulate other genes in the cell. RFX binds the X1 box of MHC-II promoters (PubMed:10072068, PubMed:10725724, PubMed:9806546). May also potentiate the activation of RAF1 (By similarity).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q9Z205}. Nucleus {ECO:0000250|UniProtKB:Q9Z205}
Tissue Location	Ubiquitous.

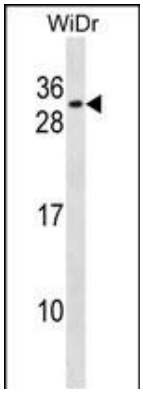
Background

Major histocompatibility (MHC) class II molecules are transmembrane proteins that have a central role in development and control of the immune system. The protein encoded by this gene, along with regulatory factor X-associated protein and regulatory factor-5, forms a complex that binds to the X box motif of certain MHC class II gene promoters and activates their transcription. Once bound to the promoter, this complex associates with the non-DNA-binding factor MHC class II transactivator, which controls the cell type specificity and inducibility of MHC class II gene expression. This protein contains ankyrin repeats involved in protein-protein interactions. Mutations in this gene have been linked to bare lymphocyte syndrome type II, complementation group B. Two transcript variants encoding different isoforms have been described for this gene, with only one isoform showing activation activity.

References

Garvie, C.W., et al. Biochim. Biophys. Acta 1779(12):797-804(2008)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Krawczyk, M., et al. Mol. Cell. Biol. 25(19):8607-8618(2005)
Wang, A.H., et al. J. Biol. Chem. 280(32):29117-29127(2005)
Grimwood, J., et al. Nature 428(6982):529-535(2004)

Images



RFXANK Antibody (Center) (Cat. #AP16143c) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the RFXANK antibody detected the RFXANK protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.