Recombinant Human regulatory factor X-associated ankyrin-containing protein, His-tagged

Cat. No. RFXANK-234H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RFXANK, 1-237aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-237 a.a.
Description	RFXANK, 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. Recombinant human RFXANK protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol.
Molecular Mass	28 kDa (260aa), confirmed by MALDI-TOF

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMELTQPA EDLIQTQQTP ASELGDPEDP GEEAADGSDT VVLSLFPCTP EPVNPEPDAS VSSPQGSSLK HSTTLTNRQR GNEVSALPAT LDCDNLVNKP DERGFTPLIW ASAFGEIETV RFLLEWGADP HILAKERESA LSLASTGGYT DIVGLLLERD VDINIYDWNG GTPLLYAVRG NHVKCVEALL ARGADLTTEA DSGYTPMDLA VALGYRKVQQ VIENHILKLF QSNLVPADPE
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	RFXANK regulatory factor X-associated ankyrin-containing protein [Homo sapiens]
Official Symbol	RFXANK
Synonyms	RFXANK; regulatory factor X-associated ankyrin-containing protein; DNA-binding protein RFXANK; ANKRA1; ankyrin repeat containing regulatory factor X associated protein; BLS; DNA binding protein RFXANK; F14150_1; MGC138628; regulatory factor X subunit B; RFX B; RFX Bdelta4; RFX-Bdelta4; ankyrin repeat family A protein 1; ankyrin repeat-containing regulatory factor X-associated protein; RFX-B;
Gene ID	8625
mRNA Refseq	NM_003721
Protein Refseq	NP_003712

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MIM	603200
UniProt ID	O14593
Chromosome Location	19p12
Pathway	Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Primary immunodeficiency, organism-specific biosystem; Primary immunodeficiency, conserved biosystem; Signaling events mediated by HDAC Class II, organism-specific biosystem; Tuberculosis, organism-specific biosystem;
Function	DNA binding; histone deacetylase binding; sequence-specific DNA binding transcription factor activity; transcription cofactor activity;

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