Recombinant human RFXANK protein

Catalog Number: ATGP2188

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-237aa

UniProt No.
O14593

NCBI Accession No.
NP_604389

Alternative Names
DNA-binding protein RFXANK isoform b, ANKRA1, BLS, F14150_1, RFX-B

PRODUCT SPECIFICATION

Molecular Weight
28 kDa (260aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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.

Amino acid Sequence

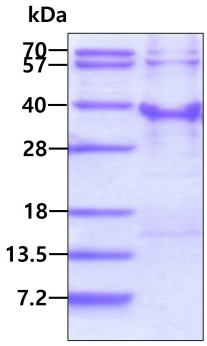
<MGSSHHHHHH SSGLVPRGSH MGS>MELTQPA EDLIQTQQTP ASELGDPEDP GEEAADGSDT VVLSLFPCTP EPVNPEPDAS VSSPQGSSLK HSTTLTNRQR GNEVSALPAT LDCDNLVNKP DERGFTPLIW ASAFGEIETV RFLLEWGADP HILAKERESA LSLASTGGYT DIVGLLLERD VDINIYDWNG GTPLLYAVRG NHVKCVEALL ARGADLTTEA DSGYTPMDLA VALGYRKVQQ VIENHILKLF QSNLVPADPE

General References

Krawczyk M, Masternak K, et al. (2005). Mol Cell Biol. 25(19):8607-18.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.