

RFXANK, 1-237aa, Human, His tag, E.coli

Cat.NO.: TP03720

3th Edition

Synonyms:DNA-binding protein RFXANK isoform b, ANKRA1, BLS, F14150_1, RFX-B

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

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSPCTPEPVN
PEPDASVSSPQGSSSLKHSTTLTNRQRGNEVSALPATLDCDNLVNKPDERGFTPLIWASAFGEIETVRFLEWGADP
HILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPLLYAVRGNHVKCV EALLARGADLTTEADSGYTPM
DLAVALGYRKVQQVIENHILKLFQSNLVPADPE

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.