abcam

Product datasheet

Recombinant Human RFXANK protein ab167884

1 Image

Overview

Product name	Recombinant Human RFXANK protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Accession	O14593-2
Species	Human
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
Molecular weight	28 kDa including tags
Amino acids	1 to 237
Tags	His tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab167884** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Purity	> 85 % SDS-PAGE. ab167884 is purified using conventional chromatography techniques.

Form	Liquid

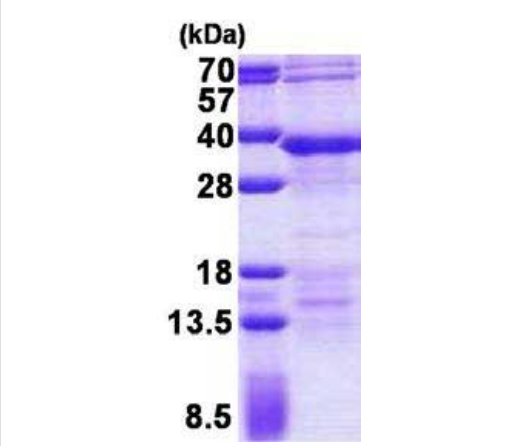
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.88% Sodium chloride

General Info

Function	Activates transcription from class II MHC promoters. Activation requires the activity of the MHC class II transactivator (MHC2TA). May regulate other genes in the cell. RFX binds the X1 box of MHC-II promoters. Isoform RFX-B-delta5 is not involved in the positive regulation of MHC class II genes.
Tissue specificity	Ubiquitous.
Involvement in disease	Defects in RFXANK are a cause of bare lymphocyte syndrome type 2 (BLS2) [MIM:209920]; also known as hereditary MHC class II deficiency or HLA class II-deficient combined immunodeficiency. BLS2 is a severe combined immunodeficiency disease with early onset. It is characterized by a profound defect in constitutive and interferon-gamma induced MHC II expression, absence of cellular and humoral T-cell response to antigen challenge, hypogammaglobulinemia and impaired antibody production. The consequence include extreme susceptibility to viral, bacterial and fungal infections.
Sequence similarities	Contains 5 ANK repeats.
Domain	The third ankyrin repeat is required for association with the two other RFX subunits; RFX5 and RFXAP.
Cellular localization	Nucleus.

Images



SDS-PAGE - Recombinant Human RFXANK protein (ab167884)

15% SDS-PAGE analysis of ab167884 (3µg).

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