

Recombinant Human RFX5 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. RFX5-332H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RFX5 MS Standard C13 and N15-labeled recombinant protein (NP_001020774) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	A lack of MHC-II expression results in a severe immunodeficiency syndrome called MHC-II deficiency, or the bare lymphocyte syndrome (BLS; MIM 209920). At least 4 complementation groups have been identified in B-cell lines established from patients with BLS. The molecular defects in complementation groups B, C, and D all lead to a deficiency in RFX, a nuclear protein complex that binds to the X box of MHC-II promoters. The lack of RFX binding activity in complementation group C results from mutations in the RFX5 gene encoding the 75-kD subunit of RFX (Steimle et al., 1995). RFX5 is the fifth member of the growing family of DNA-binding proteins sharing a novel and highly characteristic DNA-binding domain called the RFX motif. Multiple alternatively spliced transcript variants have been found but the full-length natures of only two have been determined. [provided by RefSeq, Jul 2008]
Molecular Mass	65.1 kDa
AA Sequence	MAEDEPDAKSPKTGGRAPPGGAEAGEPTTLLQRLRGITISKAVQNKVEGILQDVQKF SDNDKLYLYLQLPSGPTTGDKSSEPSTLSNEEYMYAYRWIRNHLEEHTDTCLPKQS

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VYDAYRKYCESLACCRPLSTANFGKIIREIFPDIKARRLGGRGQSKYCYSGIRRKTLV
 SMPPLPGLDLKGSESPGPEVTPAPRDELVEAACALTCDWAERILKRSFSSIVEVA
 RFLQQLHISARSAHAHVLKAMGLAEEDHAPRERSSKPKNGLENPEGGAHKKPER
 LAQPPKDLEARTGAGPLARGERKKSVESSAPGANNLQVNALVARLPLLLPRAPRS
 LIPPIPVSPPI LAPRLSSGALKVATLPLSSRAGAPPAAVPIINMILPTVPALPGPGPGPG
 RAPPGGTLQPRGTENREVGIGGDQGPDKGVKRTAEVPVSEASGQAPPAKAAKQD
 IEDTASDAKRKRGRPRKSGSGSERNSTPLKSAAAMESAQSSRLPWETWGSNGE
 GNSAGGAERPMPGMAEKGAFLAQGGDGTVSKGGRGPGSQHTKEAEDKIPLVP
 SKVSVIKGSRSQKEAFPLAKGEVDTAPQGNKDLKEHVLQSSLSQEHKDPKATPPTR
 TRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name RFX5 regulatory factor X, 5 (influences HLA class II expression) [Homo sapiens (human)]

Official Symbol RFX5

Synonyms RFX5; regulatory factor X, 5 (influences HLA class II expression); DNA-binding protein RFX5; regulatory factor X 5;

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Gene ID	5993
mRNA Refseq	NM_001025603
Protein Refseq	NP_001020774
MIM	601863
UniProt ID	P48382
SDS-PAGE	