



# Recombinant Human DNA-binding protein RFX5 (RFX5)

<b>Product Code</b>	CSB-EP019614HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P48382
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AEDEPDAKS PKTGGRAPPG GAEAGEPTTL LQRLRG TISK AVQNKVEGIL QDVQKFS DND KLYLYLQLPS GPTTGDKSSE PSTLSNEEYM YAYRWIRNHL EEHTDTC LPK QSVYDAYRKY CESLACCRPL STANFGKIIR EIFPDIKARR LGGRGQSKYC YSGIRRKTLV SMPPLGLDL KGSESPMG P EVTPAPRDEL VEAACALTCD WAERILKRSF SSIVEVARFL LQQHLISARS AHAHVLKAMG LAEEDEHAPR ERSSKPKNGL ENPEGGAHKK PERLAQPPKD LEARTGAGPL ARGERRKSVV ESSAPGANNL QVNALVARLP LLLPRAPRSL IPIIPVSPPI LAPRLSSGAL KVATLPLSSR AGAPPAAVPI INMILPTVPA LPGPGPGPGR APPGGLTQPR GTENREVGIG GDQGP HDKGV KRTAEVPVSE ASGQAPPAKA AKQDIEDTAS DAKRKRGRPR KKS GSGSERN STPLKSAAM ESAQSSRLPW ETWGSGGEGN SAGGAERPGP MGEAEKGAVL AQQQGDGTVS KGGRGPGSQH TKEAEDKIPL VPSKVSVIKG SRSQKEAFPL AKGEVDTAPQ GNKDLKEHVL QSSLSQEHKD PKATPP
<b>Source</b>	E.coli
<b>Target Names</b>	RFX5
<b>Protein Names</b>	Recommended name: DNA-binding protein RFX5 Alternative name(s): Regulatory factor X 5
<b>Expression Region</b>	2-616
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.