



# Recombinant Human T-box transcription factor TBX21 (TBX21)

<b>Product Code</b>	CSB-EP890744HU-B
<b>Abbreviation</b>	TBX21
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q9UL17
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MGIVEPGCGD MLTGTEPMPG SDEGRAPGAD PQHRYFYPEP GAQDADERRG GGS LGSPYPG GALVPAPPSR FLGAYAYPPR PQAAGFPAG ESFPPPADA EGYQPGEGYAA PDPRAGLYPG PREDYALPAG LEVSGKLRVA LNNHLLWSKF NQHQTEMIIT KQGRRMF PFL SFTVAGLEPT SHYRMFVDVV LVDQHHWRYQ SGKWVQCGKA EGSMPGNRLY VHPDSPNTGA HWMRQEV SFG KLKLTNNKGA SNNVTQMIVL QSLHKYQ PRL HIVEVNDGEP EAACNASNTH IFTFQETQFI AVTAYQNAEI TQLKIDNNPF AKGFREN FES MYTSVDTSIP SPPGPNCQFL GGDHYSPLLP NQYPVPSRFY PDLPGQAKDV VPQAYWLGAP RDHSYEA EFR AVSMKPAFLP SAPGPTMSYY RGQEV LAPGA GWPVAPQYPP KMGPASWFRP MRTLPMEPGP GGSEGRGPED QGPPLVWTEI APIRPSSDS GLGEGDSKRR RVSPYPSSGD SSSPAGAPSP FDKEAEGQFY NYFPN
<b>Source</b>	E.coli
<b>Target Names</b>	TBX21
<b>Protein Names</b>	Recommended name: T-box transcription factor TBX21 Short name= T-box protein 21 Alternative name(s): T-cell-specific T-box transcription factor T-bet Transcription factor TBLYM
<b>Expression Region</b>	1-535
<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 protein
<b>Target Details</b>	This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This gene is the human ortholog of mouse Tbx21/Tbet gene. Studies in mouse show that Tbx21 protein is a Th1 cell-specific transcription factor that controls the



expression of the hallmark Th1 cytokine, interferon-gamma (IFNG). Expression of the human ortholog also correlates with IFNG expression in Th1 and natural killer cells, suggesting a role for this gene in initiating Th1 lineage development from naive Th precursor cells.

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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**

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