



Recombinant Human T-box transcription factor TBX21 (TBX21)

Product Code	CSB-YP890744HU
Abbreviation	TBX21
Storage	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.
Uniprot No.	Q9UL17
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MGIVEPGCGD MLTGTEPMPG SDEGRAPGAD PQHRYFYPEP GAQDADERRG GGS LGSPYPG GALVPAPPSR FLGAYAYPPR PQAAGFPAG ESFPPPADA EGYQPGEGYAA PDPRAGLYPG PREDYALPAG LEVSGKLRVA LNNHLLWSKF NQHQTEMIIT KQGRRMF PFL SFTVAGLEPT SHYRMFVDVV LVDQHHWRYQ SGKWWQCGKA 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 APIRPESSDS GLGEGDSKRR RVSPYPSSGD SSSPAGAPSP FDKEAEGQFY NYFPN
Source	Yeast
Target Names	TBX21
Protein Names	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
Expression Region	1-535
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.

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.

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.