

Recombinant Human TBX21 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TBX21-2143H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TBX21 MS Standard C13 and N15-labeled recombinant protein (NP_037483) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	58.1 kDa
AA Sequence	MGIVEPGCGDMLTGTEPMPGSDEGRAPGADPQHRYFYPEPGAQDADERRGGGSL GSPYPGGALVPAPPSRFLGAYAYPPRPQAAGFPGAGESFPPPADAEGYQPGEGYA APDPRAGLYPGPREDYALPAGLEVSGKLRVALNNHLLWSKFNQHQTMIITKQGRR MFPFLSFTVAGLEPTSHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMPGNRL YVHPDSPNTGAHWMRQEVSGKCLKLTNNKGASNNVTQMIVLQSLHKYQPR LHIVEV

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NDGEPEAACNASNTHIFTFQETQFIAVTAYQNAEITQLKIDNNPFAKGFRENFESMYT
 SVDTSIPSPPGPNCQFLGGDHYSPLLPNQYPVPSRFYDPDLPQGAKDVVPQAYWLGA
 PRDHSYEAEFRAVSMKPAFLPSAPGPTMSYYRGQEV LAPGAGWPVAPQYPPKMG
 PASWFRPMRTLPMEPGPGGSEGRGPEDQGPPLVWTEIAPIRPESSDSGLGEGDSK
 RRRVSPYPSSGDSSSPAGAPSPFDKEAEGQFYNYFPNTRTRPLEQKLISEEDLAAN
 DILDYKDDDDKV

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 TBX21 T-box 21 [[Homo sapiens \(human\)](#)]

Official Symbol [TBX21](#)

Synonyms TBX21; T-box 21; T-box transcription factor TBX21; T bet; TBLYM; T-box protein 21; T-box expressed in T cells; transcription factor TBLYM; T-cell-specific T-box transcription factor T-bet; TBET; T-PET; T-bet;

Gene ID [30009](#)

mRNA Refseq [NM_013351](#)

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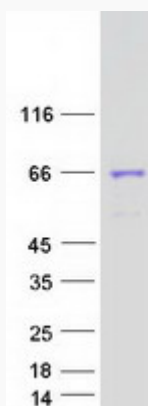
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Protein Refseq NP_037483

MIM 604895

UniProt ID Q9UL17

SDS-PAGE



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