

Active Recombinant Full Length Human TBX21 Protein, C-Flag-tagged

Cat. No. TBX21-125HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TBX21 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Enzyme substrate
Molecular Mass	58.1 kDa
AA Sequence	MGIVEPGCGDMLTGTEPMPGSDEGRAPGADPQHRYFYPEPGAQDADERRGGGSL GSPYPGGALVPAPPSR FLGAYAYPPRPQAAGFPGAGESFPPPADAEQYQPGEGY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AAPDPRAGLYPGPREDYALPAGLEVSGKLRVA LNNHLLWSKFNQHQTMIITKQGR
 RMFPFLSFTVAGLEPTSHYRMFVDVVLVDQHHWRYQSGKWVQCGKA EGSMPGN
 RLYVHPDSPNTGAHWMRQEVSGKLKLTNNKGASNNVTQMIVLQSLHKYQPR LHIV
 EVNDGEP EAACNASNTHIFTFQETQFIAVTAYQNAEITQLKIDNNPFAKGFRENFES
 MYTSVDT SIPSPPGPNCQFL GGDHYSPLLPNQYPVPSRFYPDLPGQAKDVVPQAY
 WLGAPRDHSYEA EFRAVSMKPAFLPSAPGPTMSYY RGQEV LAPGAGWPVAPQYP
 PKMG PASWFRPMRTLPMEPGPGGSEGRGPEDQGPPLVWTEI APIRPESSDS
 GLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEAEGQFYNYFPNTRTRPLEQKLI
 SEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transcription Factors
Full Length	Full L.

GENE INFORMATION

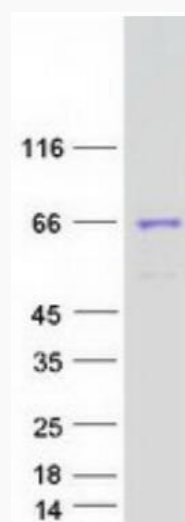
Gene Name	TBX21 T-box transcription factor 21 [Homo sapiens (human)]
Official Symbol	TBX21

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Synonyms	TBET; IMD88; T-PET; T-bet; TBLYM
Gene ID	30009
mRNA Refseq	NM_013351.2
Protein Refseq	NP_037483.1
MIM	604895
UniProt ID	Q9UL17



Coomassie blue staining of purified TBX21 protein.