

Recombinant Human TBX5

Cat. No. TBX5-29460TH **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant fragment corresponding to amino acids 402-518 of Human TBX5 with an N terminal proprietary tag; Predicted MWt 38.50 kDa inclusive of tag. |
| Species | Human |
| Source | Wheat Germ |
| Protein Length | 117 amino acids |
| 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 closely linked to related family member T-box 3 (ulnar mammary syndrome) on human chromosome 12. The encoded protein may play a role in heart development and specification of limb identity. Mutations in this gene have been associated with Holt-Oram syndrome, a developmental disorder affecting the heart and upper limbs. Several transcript variants encoding different isoforms have been described for this gene. |
| Molecular Weight | 38.50kDa inclusive of tags |
| Form | Liquid |
| Purity | Proprietary Purification |
| Storage buffer | pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl |

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| Storage | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles. |
| Sequences of amino acids | PSMPSYSSCTVTTVQPM DRLPYQH FSAHFTSGPLVPRLAG MANHGSPQLGEGMF QHQTsvAHQPVVRQC GPGTGLQSPGT LQPPEFLYSHGVPRTLSPHQYHSVHG VG MVPEWSDNS |
| Sequence Similarities | Contains 1 T-box DNA-binding domain. |
| GENE INFORMATION | |
| Gene Name | TBX5 T-box 5 [Homo sapiens] |
| Official Symbol | TBX5 |
| Synonyms | TBX5; T-box 5; HOS; T-box transcription factor TBX5; |
| Gene ID | 6910 |
| mRNA Refseq | NM_000192 |
| Protein Refseq | NP_000183 |
| MIM | 601620 |
| Uniprot ID | Q99593 |
| Chromosome Location | 12q24.1 |
| Pathway | Heart Development, organism-specific biosystem; |

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Function

DNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity;

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