

Datasheet for ABIN7544171

T-Box 1 Protein (TBX1) (AA 1-398) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | T-Box 1 (TBX1) |
| Protein Characteristics: | AA 1-398 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This T-Box 1 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant TBX1 Protein expressed in mammalian cells. |
| Sequence: | <p>MHFSTVTRDM EAFTASSLSS LGAAGGFPGA ASPGADPYGP REPPPPPPRY DPCAAAAPGA PGPPPPPHAY PFAPAAGAAT SAAAEPEGPG ASCAAAAPKAP VKKNAKVAGV SVQLEMKALW DEFNQLGTEM IVTKAGRRMF PTFQVKLFGM DPMADYMLLM DFVPVDDKRY RYAFHSSSWL VAGKADPATP GRVHYHPDSP AKGAQWMKQI VSFDKLKLTN NLLDDNGHII LNSMHRYPQR FHVYVYDPRK DSEKYAEENF KTFVFEETRF TAVTAYQNHRI ITQLKIASNP FAKGFRDCDP EDWPRNHRPG ALPLMSAFAR SRNPVASPTQ PSGTEKGGHV LKDKVKAET SRNTPEREVE LLRDAGGCVN LGLPCPAECQ PFNTQGLVAG RTAGDRLC</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |

Product Details

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| Characteristics: | <div>Key Benefits:</div> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p> |
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

Target Details

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| Target: | T-Box 1 (TBX1) |
| Alternative Name: | TBX1 (TBX1 Products) |
| Background: | <p>T-box transcription factor TBX1 (T-box protein 1) (Testis-specific T-box protein),FUNCTION: Transcription factor that plays a key role in cardiovascular development by promoting pharyngeal arch segmentation during embryonic development (By similarity). Also involved in craniofacial muscle development (By similarity). Together with NKX2-5, acts as a regulator of asymmetric cardiac morphogenesis by promoting expression of PITX2 (By similarity). Acts upstream of TBX1 for the formation of the thymus and parathyroid glands from the third pharyngeal pouch (By similarity). Required for hair follicle stem cell self-renewal (By similarity). Binds to the palindromic T site 5'-TTCACACCTAGGTGTGAA-3' DNA sequence (PubMed:11111039, PubMed:22095455). {ECO:0000250 UniProtKB:P70323, ECO:0000269 PubMed:11111039, ECO:0000269 PubMed:22095455}.</p> |
| Molecular Weight: | 43.1 kDa |
| UniProt: | O43435 |

Target Details

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| Pathways: | Retinoic Acid Receptor Signaling Pathway , Sensory Perception of Sound , Cellular Response to Molecule of Bacterial Origin , Regulation of Muscle Cell Differentiation |
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Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |