

Datasheet for ABIN7556145  
**ZBTB7B Protein (AA 1-539) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ZBTB7B
Protein Characteristics:	AA 1-539
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZBTB7B protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant ZBTB7B Protein expressed in mammalian cells.
Sequence:	<p>MGSPEDDLIG IPFPDHSEL LSCLNEQRQL GHLCDLTIRT QGLEYPTRHRA VLAACSHYFK            KLFTEGGGGA VMGAGGSGTA TGGAGAGVCE LDFVGPEALG ALLEFAYTAT LTTSSANMPA            VLQAARLLEI PCVIAACMEI LQGSGLEAPS PDEDDCERAR QYLEAFATAT ASGVPNGEDS            PPQVPLPPPP PPPPRPVARR SRKPRKAFLQ TKGARANHLV PEVPTVPAHP LTYEEEEVAG            RVGSSGGSGP GDSYSPPTGT ASPPEGPQSY EPYEGEEEE ELVYPPAYGL AQGGGPPLSP            EELGSDDAI DPDLMAYLSS LHQDNLAPGL DSQDKLVRKR RSQMPQECVP CHKIIHGAGK            LPRHMRTHTG EKPFACEVCG VRFTRNDKLK IHMRKHTGER PYSCPHCPAR FLHSYDLKNH            MHLHTGDRPY ECHLCHKafa KEDHLQRHLK GQNCLEVRTR RRRKDDAPPH YPPPSTAAAS            PAGLDLSNGH LDTFRLSLAR FWEQSAPTGP PVSTPGPPDD DEEEGAPTPP QAEGAMESS</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.**

## Product Details

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.
Characteristics:	<p><b>Key Benefits:</b></p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <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

Target:	ZBTB7B
Alternative Name:	ZBTB7B ( <a href="#">ZBTB7B Products</a> )
Background:	<p>Zinc finger and BTB domain-containing protein 7B (Krueppel-related zinc finger protein cKrox) (hcKrox) (T-helper-inducing POZ/Krueppel-like factor) (Zinc finger and BTB domain-containing protein 15) (Zinc finger protein 67 homolog) (Zfp-67) (Zinc finger protein 857B) (Zinc finger protein Th-POK),FUNCTION: Transcription regulator that acts as a key regulator of lineage commitment of immature T-cell precursors. Exerts distinct biological functions in the mammary epithelial cells and T cells in a tissue-specific manner. Necessary and sufficient for commitment of CD4 lineage, while its absence causes CD8 commitment. Development of immature T-cell precursors (thymocytes) to either the CD4 helper or CD8 killer T-cell lineages correlates precisely with their T-cell receptor specificity for major histocompatibility complex class II or class I molecules, respectively. Cross-antagonism between ZBTB7B and CBF complexes are determinative to CD4 versus CD8 cell fate decision. Suppresses RUNX3</p>

## Target Details

expression and imposes CD4+ lineage fate by inducing the SOCS suppressors of cytokine signaling. induces, as a transcriptional activator, SOCS genes expression which represses RUNX3 expression and promotes the CD4+ lineage fate. During CD4 lineage commitment, associates with multiple sites at the CD8 locus, acting as a negative regulator of the CD8 promoter and enhancers by epigenetic silencing through the recruitment of class II histone deacetylases, such as HDAC4 and HDAC5, to these loci. Regulates the development of IL17-producing CD1d-restricted natural killer (NK) T cells. Also functions as an important metabolic regulator in the lactating mammary glands. Critical feed-forward regulator of insulin signaling in mammary gland lactation, directly regulates expression of insulin receptor substrate-1 (IRS-1) and insulin-induced Akt-mTOR-SREBP signaling (By similarity). Transcriptional repressor of the collagen COL1A1 and COL1A2 genes. May also function as a repressor of fibronectin and possibly other extracellular matrix genes (PubMed:9370309). Potent driver of brown fat development, thermogenesis and cold-induced beige fat formation. Recruits the brown fat lncRNA 1 (Blnc1):HNRNPU ribonucleoprotein complex to activate thermogenic gene expression in brown and beige adipocytes (By similarity). {ECO:0000250|UniProtKB:Q64321, ECO:0000269|PubMed:9370309}.

Molecular Weight: 58.0 kDa

UniProt: [O15156](#)

## Application Details

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

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