Recombinant Human ZBTB7B Protein (G2-S539), Tag Free

Cat. No. ZBTB7B-1275H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human (GG)-ZBTB7B(G2-S539 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	G2-S539
Description	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 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

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	development of IL17-producing CD1d-restricted naural 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. Transcriptional repressor of the collagen COL1A1 and COL1A2 genes. May also function as a repressor of fibronectin and possibly other extracellular matrix genes. 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.
Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	ZBTB7B zinc finger and BTB domain containing 7B [Homo sapiens (human)]

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Official Symbol	ZBTB7B
Synonyms	ZBTB7B; zinc finger and BTB domain containing 7B; ZFP67, zinc finger protein 67 homolog (mouse); zinc finger and BTB domain-containing protein 7B; c Krox; hcKrox; ZBTB15; zinc finger and BTB domain containing 15; ZNF857B; zinc finger protein 857B; zinc finger protein Th-POK; zinc finger protein 67 homolog; T-helper-inducing POZ/Krueppel-like factor; krueppel-related zinc finger protein cKrox; THPOK; ZFP67; ZFP-67; c-KROX; hcKROX; DKFZp686G01254;
Gene ID	51043
mRNA Refseq	NM_001252406
Protein Refseq	NP_001239335
MIM	607646
UniProt ID	O15156

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