

Recombinant Full Length Human ZBTB33 Protein, GST-tagged

Cat. No. ZBTB33-6851HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ZBTB33 full-length ORF (AAH42753.1, 1 a.a. - 673 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	673 amino acids
Description	This gene encodes a transcriptional regulator with bimodal DNA-binding specificity, which binds to methylated CGCG and also to the non-methylated consensus KAISO-binding site TCCTGCNA. The protein contains an N-terminal POZ/BTB domain and 3 C-terminal zinc finger motifs. It recruits the N-CoR repressor complex to promote histone deacetylation and the formation of repressive chromatin structures in target gene promoters. It may contribute to the repression of target genes of the Wnt signaling pathway, and may also activate transcription of a subset of target genes by the recruitment of catenin delta-2 (CTNND2). Its interaction with catenin delta-1 (CTNND1) inhibits binding to both methylated and non-methylated DNA. It also interacts directly with the nuclear import receptor Importin-α2 (also known as karyopherin alpha2 or RAG cohort 1), which may mediate nuclear import of this protein. Alternatively spliced transcript variants encoding the same protein have been identified.
Molecular Mass	101 kDa

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**AA Sequence**

MESRKLISATDIQYSGSLLNSLNEQRGHGLFCDVTVIVEDRKFRAHKNILSASSTYFH
QLFSVAGQVVELSFIRAEIFAEILNYIYSSKIVRVRSDLLDELIKSGQLLGVKFIAELGVP
LSQVKSISGTAQDGNTEPLPPDSGDKNLVIQKSKDEAQDNGATIMPIITESFSLSAED
YEMKKIIVTDSDDDDDDVIFCSEILPTKETLPSNNTVAQVQSNPGPVAISDVAPSAS
NNSPPLTNITPTQKLPTPVNQATLSQTQGSEKLLVSSAPTHLTPNIILLNQTPNSTPPN
VSSSLPNHMPSSINLLVQNQQTPNSAILTGKANEIIIDDDDDTISSSPDSAVS
NTSLVPQADTSQNTSFDGSLIQKMQIPTLLQEPLSNLSKISDIITRNTNDPGVGSKHL
MEGQKIITLDTATEIEGLSTGCKVYANIGEDTYDIVIPVKDDPDEGEARLENEIPKTSG
SEMANKRMKVKHDDHYELVDGRVYYICIVCKRSYVCLTSLRRHFNIHSWEKKYPCR
YCEKVFLAEYRTKHEIHHTGERRYQCLACGKSFINYQFMSSHIKSVHSQDPSGDSK
LYRLHPCRSQIRQYAYLSDRSSTIPAMKDDGIGYKVDGTGKEPPVGTSTQNKPMT
WEDIFIQQENDSIFKQNVTDGSTEFEFIIPESY

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION**Gene Name**

ZBTB33 zinc finger and BTB domain containing 33 [Homo sapiens (human)]

Official Symbol

ZBTB33

Synonyms

ZBTB33; zinc finger and BTB domain containing 33; ZNF348; ZNF-kaiso;
transcriptional regulator Kaiso; UGSC:H_DJ525N14.1; kaiso transcription factor; zinc

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finger and BTB domain-containing protein 33

Gene ID	10009
mRNA Refseq	NM_006777
Protein Refseq	NP_006768
MIM	300329
UniProt ID	Q86T24

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