

Product Name: KD-Validated ZBTB33 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01367

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 74.5kDa

Antigen Information

Gene Name	ZBTB33 ZBTB33; Zinc Finger And BTB Domain Containing 33; ZNF348; WUGSC:H_DJ525N14.1; ZNF-
Alternative Names	Kaiso; Zinc Finger And BTB Domain-Containing Protein 33; Transcriptional Regulator Kaiso; Kaiso; Kaiso Transcription Factor; KAISO
Gene ID	10009.0
SwissProt ID	Q86T24
Immunogen	A synthesized peptide derived from human KAISO

Background

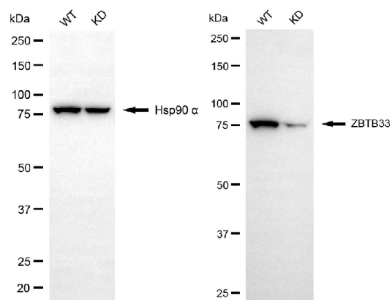
This gene encodes a transcriptional regulator with bimodal DNA-binding specificity, which binds to methylated CGCG and also to the non-methylated consensus KAISO-binding site TCCTGCNA. The protein contains an N-terminal POZ/BTB domain and 3

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- α 2 (also known as karyopherin α 2 or RAG cohort 1), which may mediate nuclear import of this protein. Alternatively spliced transcript variants encoding the same protein have been identified.[provided by RefSeq, May 2010]

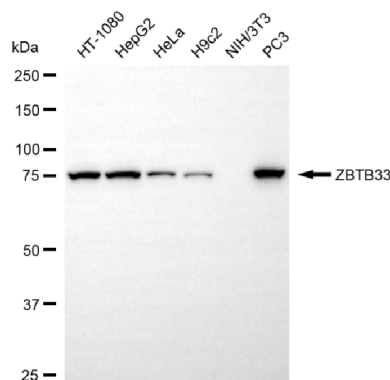
Research Area

Epigenetics and Nuclear Signaling

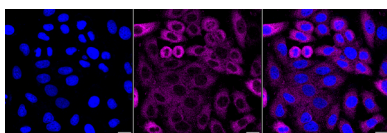
Image Data



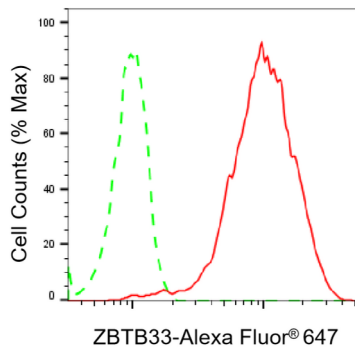
Western blotting analysis using ZBTB33 antibody (KVA01367). ZBTB33 expression in wild-type (WT) and ZBTB33 knockdown (KD) 293T cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ZBTB33 antibody (KVA01367, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ZBTB33 antibody (KVA01367). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ZBTB33 antibody (KVA01367, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with ZBTB33 antibody (KVA01367, 1:1,000). Nuclei were stained blue with DAPI; ZBTB33 was stained magenta with Alexa Fluor[®] 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.



Flow cytometric analysis of ZBTB33 expression in HepG2 cells using ZBTB33 antibody (KVA01367, 1:2,000). Green, isotype control; red, ZBTB33.