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ZBTB33 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ZBTB33.
Catalog # AT4570a

Product Information

Application	WB, IF, E
Primary Accession	Q86T24
Other Accession	BC042753
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2B2
Calculated MW	74484

Additional Information

Gene ID	10009
Other Names	Transcriptional regulator Kaiso, Zinc finger and BTB domain-containing protein 33, ZBTB33, KAISO, ZNF348
Target/Specificity	ZBTB33 (AAH42753, 564 a.a. ~ 673 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ZBTB33 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

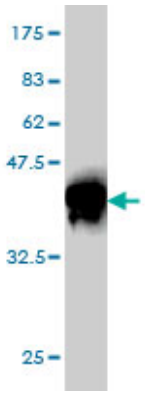
Background

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-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.

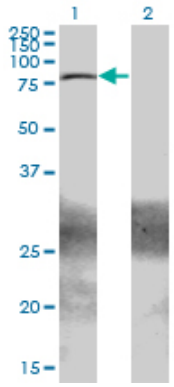
References

[Bifunctional role of domain zinc fingers of methyl-DNA-binding protein Kaiso] Zhigalova NA, et al. Mol Biol (Mosk), 2010 Mar-Apr. PMID 20586187.Kaiso is expressed in lung cancer: its expression and localization is affected by p120ctn. Dai SD, et al. Lung Cancer, 2010 Feb. PMID 19615783.Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.Cytoplasmic Kaiso is associated with poor prognosis in non-small cell lung cancer. Dai SD, et al. BMC Cancer, 2009 Jun 9. PMID 19508730.Association of the mammalian transcriptional regulator kaiso with centrosomes and the midbody. Kantidze OL, et al. Cell Cycle, 2009 Jul 15. PMID 19502788.

Images

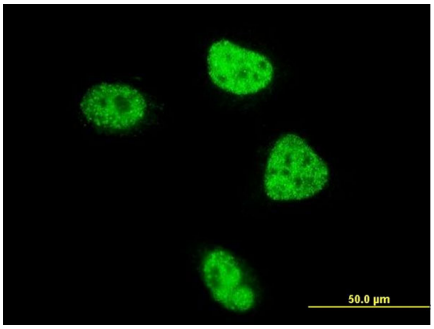


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

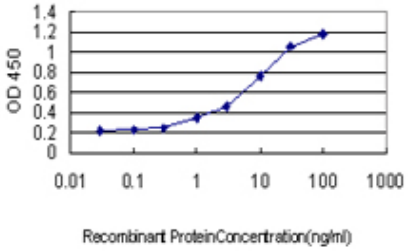


Western Blot analysis of ZBTB33 expression in transfected 293T cell line by ZBTB33 monoclonal antibody (M01), clone 2B2.

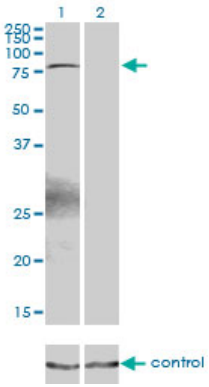
Lane 1: ZBTB33 transfected lysate(74.6 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to ZBTB33 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged ZBTB33 is approximately 0.1ng/ml as a capture antibody.



Western blot analysis of ZBTB33 over-expressed 293 cell line, cotransfected with ZBTB33 Validated Chimera RNAi ((Cat # AT4570a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.