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ZNF348/Kaiso Rabbit pAb

Catalog # AP98444

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q86T24
Other Accession	Q86T24
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74484
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ZNF348/Kaiso
Epitope Specificity	51-150/672
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 BTB (POZ) domain. Contains 3 C2H2-type zinc fingers.
SUBUNIT	Self-associates. Interacts with CTNND2 (By similarity). Interacts with CTNND1, and this interaction inhibits binding to both methylated and non-methylated DNA. Interacts with NCOR1. Interacts with KPNA2/RCH1, which may mediate nuclear import of this protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.[provided by RefSeq, May 2010]

Additional Information

Gene ID	10009
Other Names	ZNF-kaiso; ZNF348; E130014G12Rik; Kaiso; RGD1566309; KAISO_HUMAN; ZBTB33; Zinc finger and BTB domain-containing protein 33; KAISO_MOUSE; zinc finger and BTB domain containing 33

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ZBTB33
Synonyms	KAISO, ZNF348
Function	Transcriptional regulator with bimodal DNA-binding specificity. Binds to methylated CpG dinucleotides in the consensus sequence 5'-CGCG-3' and also binds to the non-methylated consensus sequence 5'-CTGCNA-3' also known as the consensus kaiso binding site (KBS). Recruits the N-CoR repressor complex to promote histone deacetylation and the formation of repressive chromatin structures in target gene promoters. May contribute to the repression of target genes of the Wnt signaling pathway. May also activate transcription of a subset of target genes by the recruitment of CTNND2. Represses expression of MMP7 in conjunction with transcriptional corepressors CBFA2T3, CBFA2T2 and RUNX1T1 (PubMed:23251453).
Cellular Location	Nucleus. Cytoplasm Note=Also cytoplasmic in cells grown at high densities
Tissue Location	Expressed in vascular endothelium.

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