

ZBTB4 Rabbit pAb

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Catalog # AP55208

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9P1Z0
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	105114
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ZBTB4/ZNF903
Epitope Specificity	301-400/1013
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZBTB4 (zinc finger and BTB domain containing 4), also known as KAISO-L1 (KAISO-like zinc finger protein 1), is a 1,013 amino acid nuclear protein that is involved in transcriptional regulation. ZBTB4 contains one BTB (POZ) domain, six C2H2-type zinc fingers and is phosphorylated and downregulated by HIPK2. The gene encoding ZBTB4 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

Additional Information

Gene ID	57659
Other Names	Zinc finger and BTB domain-containing protein 4, KAISO-like zinc finger protein 1, KAISO-L1, ZBTB4, KIAA1538
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	ZBTB4
Synonyms	KIAA1538
Function	Transcriptional repressor with bimodal DNA-binding specificity. Represses transcription in a methyl-CpG-dependent manner. Binds with a higher affinity to methylated CpG dinucleotides in the consensus sequence 5'-CGCG-3' but can also bind to the non-methylated consensus sequence 5'-CTGCNA-3' also known as the consensus kaiso binding site (KBS). Can also bind specifically to a single methyl-CpG pair and can bind hemimethylated DNA but with a lower affinity compared to methylated DNA (PubMed: 16354688). Plays a role in postnatal myogenesis, may be involved in the regulation of satellite cells self-renewal (By similarity).
Cellular Location	Nucleus. Chromosome. Note=Localizes to chromocenters

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