

Product Name: ZBTB7A (12S1) Rabbit Monoclonal Antibody
Catalog #: AMRe20049

Summary

Production Name	ZBTB7A (12S1) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	ZBTB7A
Alternative Names	FBI1; LRF; Pokemon; TIP21; ZBTB7; ZBTB7A; ZNF857A;
Gene ID	51341.0
SwissProt ID	O95365.A synthetic peptide of human ZBTB7A

Application

Dilution Ratio	WB: 1:2000-1:10000
Molecular Weight	61kDa

Background

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Plays a key role in the instruction of early lymphoid progenitors to develop into B lineage by repressing T-cell instructive Notch signals (By similarity). Transcription factor that represses the transcription of a wide range of genes involved in cell proliferation and differentiation (PubMed: [14701838](http://www.uniprot.org/citations/14701838)), PubMed: [17595526](http://www.uniprot.org/citations/17595526)), PubMed: [20812024](http://www.uniprot.org/citations/20812024)), PubMed: [25514493](http://www.uniprot.org/citations/25514493)), PubMed: [26455326](http://www.uniprot.org/citations/26455326)), PubMed: [26816381](http://www.uniprot.org/citations/26816381)). Directly and specifically binds to the consensus sequence 5'-[GA][CA]GACCCCCCCC-3' and represses transcription both by regulating the organization of chromatin and through the direct recruitment of transcription factors to gene regulatory regions (PubMed: [12004059](http://www.uniprot.org/citations/12004059)), PubMed: [17595526](http://www.uniprot.org/citations/17595526)), PubMed: [20812024](http://www.uniprot.org/citations/20812024)), PubMed: [25514493](http://www.uniprot.org/citations/25514493)), PubMed: [26816381](http://www.uniprot.org/citations/26816381)). Negatively regulates SMAD4 transcriptional activity in the TGF-beta signaling pathway through these two mechanisms (PubMed: [25514493](http://www.uniprot.org/citations/25514493)). That is, recruits the chromatin regulator HDAC1 to the SMAD4-DNA complex and in parallel prevents the recruitment of the transcriptional activators CREBBP and EP300 (PubMed: [25514493](http://www.uniprot.org/citations/25514493)). Collaborates with transcription factors like RELA to modify the accessibility of gene transcription regulatory regions to secondary transcription factors (By similarity). Also directly interacts with transcription factors like SP1 to prevent their binding to DNA (PubMed: [12004059](http://www.uniprot.org/citations/12004059)). Functions as an androgen receptor/AR transcriptional corepressor by recruiting NCOR1 and NCOR2 to the androgen response elements/ARE on target genes (PubMed: [20812024](http://www.uniprot.org/citations/20812024)). Thereby, negatively regulates androgen receptor signaling and androgen- induced cell proliferation (PubMed: [20812024](http://www.uniprot.org/citations/20812024)). Involved in the switch between fetal and adult globin expression during erythroid cells maturation (PubMed: [26816381](http://www.uniprot.org/citations/26816381)). Through its interaction with the NuRD complex regulates chromatin at the fetal globin genes to repress their transcription (PubMed: [26816381](http://www.uniprot.org/citations/26816381)). Specifically represses the transcription of the tumor suppressor ARF isoform from the CDKN2A gene (By similarity). Efficiently abrogates E2F1-dependent CDKN2A transactivation (By similarity). Regulates chondrogenesis through the transcriptional repression of specific genes via a mechanism that also requires histone deacetylation (By similarity). Regulates cell proliferation through the transcriptional regulation of genes involved in glycolysis (PubMed: [26455326](http://www.uniprot.org/citations/26455326)).

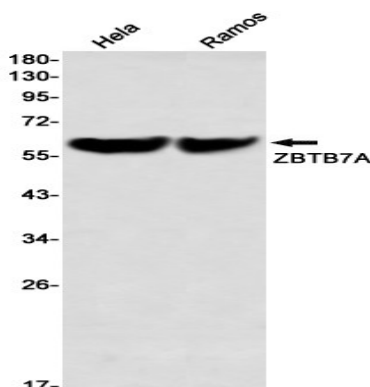
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target="_blank">26455326). Involved in adipogenesis through the regulation of genes involved in adipocyte differentiation (PubMed:14701838). Plays a key role in the differentiation of lymphoid progenitors into B and T lineages (By similarity). Promotes differentiation towards the B lineage by inhibiting the T-cell instructive Notch signaling pathway through the specific transcriptional repression of Notch downstream target genes (By similarity). Also regulates osteoclast differentiation (By similarity). May also play a role, independently of its transcriptional activity, in double-strand break repair via classical non-homologous end joining/cNHEJ (By similarity). Recruited to double-strand break sites on damage DNA, interacts with the DNA-dependent protein kinase complex and directly regulates its stability and activity in DNA repair (By similarity). May also modulate the splicing activity of KHDRBS1 toward BCL2L1 in a mechanism which is histone deacetylase-dependent and thereby negatively regulates the pro-apoptotic effect of KHDRBS1 (PubMed:24514149).

Research Area

Image Data



Western blot detection of ZBTB7A in HeLa,Ramos using ZBTB7A antibody(1:1000 diluted)

Note

For research use only.