

**ZBTB7A Rabbit mAb**  
**Catalog # AP76769****Specification****ZBTB7A Rabbit mAb - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | WB, IHC-P, IHC-F, IP, ICC |
| Primary Accession | <a href="#">O95365</a>    |
| Reactivity        | Human                     |
| Host              | Rabbit                    |
| Clonality         | Monoclonal Antibody       |
| Calculated MW     | 61439                     |

**ZBTB7A Rabbit mAb - Additional Information****Gene ID** 51341**Other Names**  
ZBTB7A**Dilution**  
WB~~1/500-1/1000  
IHC-P~~N/A  
IHC-F~~N/A  
IP~~N/A  
ICC~~N/A**Format**  
50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.**Storage**  
Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.**ZBTB7A Rabbit mAb - Protein Information****Name** ZBTB7A ([HGNC:18078](#))**Function**  
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:<a href="http://www.uniprot.org/citations/17595526" target="\_blank">17595526</a>,  
PubMed:<a href="http://www.uniprot.org/citations/20812024" target="\_blank">20812024</a>,  
PubMed:<a href="http://www.uniprot.org/citations/25514493" target="\_blank">25514493</a>,  
PubMed:<a href="http://www.uniprot.org/citations/26816381" target="\_blank">26816381</a>).  
Negatively regulates SMAD4 transcriptional activity in the TGF-beta signaling pathway through  
these two mechanisms (PubMed:<a href="http://www.uniprot.org/citations/25514493" target="\_blank">25514493</a>). 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:<a href="http://www.uniprot.org/citations/25514493" target="\_blank">25514493</a>). 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:<a href="http://www.uniprot.org/citations/12004059" target="\_blank">12004059</a>).  
Functions as an androgen receptor/AR transcriptional corepressor by recruiting NCOR1 and NCOR2  
to the androgen response elements/ARE on target genes (PubMed:<a href="http://www.uniprot.org/citations/20812024" target="\_blank">20812024</a>). Thereby,  
negatively regulates androgen receptor signaling and androgen- induced cell proliferation  
(PubMed:<a href="http://www.uniprot.org/citations/20812024" target="\_blank">20812024</a>).  
Involved in the switch between fetal and adult globin expression during erythroid cells maturation  
(PubMed:<a href="http://www.uniprot.org/citations/26816381" target="\_blank">26816381</a>).  
Through its interaction with the NuRD complex regulates chromatin at the fetal globin genes to  
repress their transcription (PubMed:<a href="http://www.uniprot.org/citations/26816381" target="\_blank">26816381</a>). 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:<a href="http://www.uniprot.org/citations/26455326" target="\_blank">26455326</a>). Involved in  
adipogenesis through the regulation of genes involved in adipocyte differentiation (PubMed:<a href="http://www.uniprot.org/citations/14701838" target="\_blank">14701838</a>). 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:<a href="http://www.uniprot.org/citations/24514149" target="\_blank">24514149</a>).

### Cellular Location

Nucleus. Note=Recruited to double-strand break sites of damaged DNA.

{ECO:0000250|UniProtKB:O88939}

### Tissue Location

Widely expressed (PubMed:9927193). In normal thymus, expressed in medullary epithelial cells  
and Hassle's corpuscles (at protein level) (PubMed:15662416). In tonsil, expressed in squamous  
epithelium and germinal center lymphocytes (at protein level) (PubMed:15662416). Up-regulated  
in a subset of lymphomas, as well as in a subset of breast, lung, colon, prostate and bladder  
carcinomas (at protein level) (PubMed:15662416). Expressed in adipose tissues  
(PubMed:14701838).

### ZBTB7A Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### ZBTB7A Rabbit mAb - Images



