

# ZBTB1 Antibody

Catalog # ASC10818

## Specification

## ZBTB1 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Application Notes WB, IHC <u>O9Y2K1</u> <u>AAH50719</u>, <u>29792103</u> Human, Mouse, Rat Rabbit Polyclonal IgG ZBTB1 antibody can be used for detection of ZBTB1 by Western blot at 1 - 2 μg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μg/mL.

## **ZBTB1** Antibody - Additional Information

Gene ID 22890 Target/Specificity ZBTB1; At least two isoforms of ZBTB1 are known to exist. This ZBTB1 antibody will not cross-react with ZBTB2.

#### **Reconstitution & Storage**

ZBTB1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

#### Precautions

ZBTB1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **ZBTB1** Antibody - Protein Information

Name ZBTB1

Synonyms KIAA0997

#### Function

Acts as a transcriptional repressor (PubMed:<a href="http://www.uniprot.org/citations/20797634" target="\_blank">20797634</a>). Represses cAMP-responsive element (CRE)-mediated transcriptional activation (PubMed:<a href="http://www.uniprot.org/citations/21706167" target="\_blank">21706167</a>). Represses cAMP-responsive element (CRE)-mediated transcriptional activation (PubMed:<a href="http://www.uniprot.org/citations/21706167" target="\_blank">21706167</a>). In addition, has a role in translesion DNA synthesis. Requires for UV-inducible RAD18 loading, PCNA monoubiquitination, POLH recruitment to replication factories and efficient translesion DNA synthesis (PubMed:<a

href="http://www.uniprot.org/citations/24657165" target="\_blank">24657165</a>). Plays a key role in the transcriptional regulation of T lymphocyte development (By similarity).



## **Cellular Location**

Nucleus. Nucleus, nucleoplasm. Note=Localized in dot-like structures in the nucleus (PubMed:21706167). Colocalized with SMRT in nuclear bodies (PubMed:20797634). The sumoylated form is preferentially located in the nucleoplasm outside the nuclear bodies(PubMed:20797634)

#### **ZBTB1** Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# ZBTB1 Antibody - Images



Western blot analysis of ZBTB1 in HepG2 lysate with ZBTB1 antibody at (A) 1 and (B) 2  $\mu$ g/mL.



Immunohistochemistry of ZBTB1 in mouse brain tissue with ZBTB1 antibody at 2.5 μg/mL. **ZBTB1 Antibody - Background** 

ZBTB1 Antibody: ZBTB1 is a zinc finger protein that also contains BTB (BR-C, ttk and bab) domain. While little is known about this protein or the related protein ZBTB2, its expression is known to be



down-regulated in human bronchial epithelial cells in response to the presence of Vanadium. Recently, expression of variant ZBTB1 protein has been associated with increased age-related macular degeneration.

### **ZBTB1** Antibody - References

Strausberg RL, Feingold EA, Grouse LH, et al. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Proc. Natl. Acad. Sci. USA2002; 99:16899-903. Li Z, Stonehuerner J, Devlin RB, et al. Discrimination of Vanadium from Zinc using gene profiling in human bronchial epithelial cells. Envir. Health Perspect.2005; 113:1747-54.

Zhang H, Morrison MA, Dewan A, et al. The NEI/NCBI dbGAP database: genotypes and haplotypes that may specifically predispose to risk of neovascular age-related macular degeneration. BMC Med. Genet.2008; 9:51.