

ZBTB5 Antibody

Catalog # ASC11262

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O15062
Other Accession	NP_055687 , 7662074
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	74278
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	ZBTB5 antibody can be used for detection of ZBTB5 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	9925
Other Names	Zinc finger and BTB domain-containing protein 5, ZBTB5, KIAA0354
Target/Specificity	ZBTB5; At least two isoforms of ZBTB5 are known to exist; this antibody will recognize both isoforms. This antibody is predicted to not cross-react with other ZBTB protein family members.
Reconstitution & Storage	ZBTB5 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	ZBTB5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZBTB5
Synonyms	KIAA0354
Function	May be involved in transcriptional regulation.
Cellular Location	Nucleus.

Background

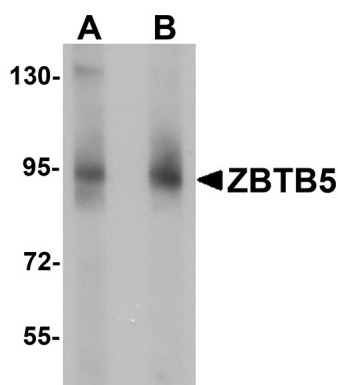
ZBTB5 Antibody: The ZBTB family of proteins is comprised of diverse zinc finger proteins that also contain a BTB (BR-C, ttk and bab) domain. ZBTB5 was identified through sequence analysis as a POZ domain Kruppel-like zinc finger (POK) protein. Further experiments indicated that it binds DNA and can directly repress transcription of the cell cycle arrest gene p21. ZBTB5 can also interact with co-repressor histone deacetylase complexes such as BCoR, NCoR, and SMRT via its POZ domain, resulting in deacetylation of histones Ac-H3 and Ac-H4 at the proximal promoter. ZBTB5 stimulates both cell proliferation and cell cycle progression, suggesting that it may act as a potential proto-oncogene.

References

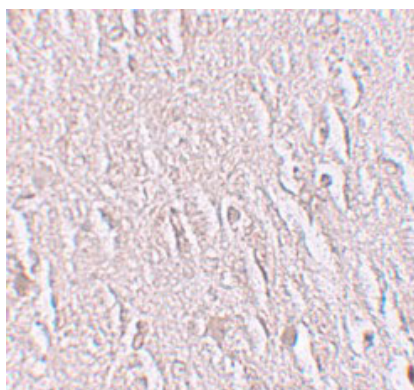
Strausberg RL, Feingold EA, Grouse LH, et al. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc. Natl. Acad. Sci. USA* 2002; 99:16899-903.

Koh D, Choi W, Jeon B, et al. A novel POK family transcription factor, ZBTB5, represses transcription of p21^{CIP1} gene. *J. Biol. Chem.* 2009; 284:19856-66.

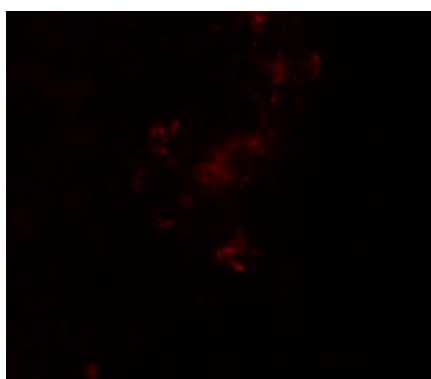
Images



Western blot analysis of ZBTB5 in mouse brain tissue lysate with ZBTB5 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of ZBTB5 in human brain tissue with ZBTB5 antibody at 2.5 µg/mL.



Immunofluorescence of ZBTB5 in human brain tissue with ZBTB5 antibody at 20 µg/mL.

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