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ZBTB48 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10288

Product Information

Application	WB
Primary Accession	P10074
Other Accession	NM_005341, NP_005332
Reactivity	Human, Mouse, Rat, Pig, Dog, Bovine
Predicted	Human, Mouse, Rat, Chicken, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77054

Additional Information

Gene ID	3104
Alias Symbol	HKR3, pp9964, ZNF855
Other Names	Zinc finger and BTB domain-containing protein 48, Krueppel-related zinc finger protein 3, Protein HKR3, Zinc finger protein 855, ZBTB48, HKR3, ZNF855
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-ZBTB48 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	ZBTB48 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZBTB48 (HGNC:4930)
Function	Plays a critical role in transcriptional regulation and chromatin remodeling. Acts as a regulator of telomere length (PubMed:28082411, PubMed:28500257). Directly binds the telomeric double-stranded 5'-TTAGGG-3' repeat (PubMed:28082411, PubMed:28500257). Preferentially binds to telomeres that have a low concentration of shelterin complex and acts as a regulator of telomere length by initiating telomere trimming, a process that prevents the accumulation of aberrantly long telomeres (PubMed:28082411). Also acts as a transcription regulator that binds to promoter regions (PubMed:24382891, PubMed:28500257, PubMed:7969177). Regulates expression of a small subset of genes, including MTFP1

(PubMed:28500257). Acts as a negative regulator of cell proliferation by specifically activating expression of ARF, a tumor suppressor isoform of CDKN2A (PubMed:24382891). Acts as a transcription regulator of CIITA, the major factor regulating MHC class II gene expression (PubMed:39562739). In addition, regulates cellular m6A/m6Am methylation on RNA by facilitating the recruitment of the RNA demethylase, FTO, to target mRNAs (PubMed:39300486).

Cellular Location

Nucleus. Chromosome, telomere Note=Directly binds the telomeric double-stranded 5'-TTAGGG-3' repeat (PubMed:28082411, PubMed:28500257). According to a report, preferentially binds to long telomeres that have a low concentration of shelterin complex, competing with the telomeric repeat binding factors TERF1 and TERF2 (PubMed:28082411). According to another report, binds telomeres regardless of their length (PubMed:28500257)

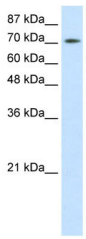
Tissue Location

Detected in adrenal gland and neuroblastoma.

References

Maris,J.M., (1996) Genomics 35 (2), 289-298Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.Publications:Kim, K. et al. Induction of the transcriptional repressor ZBTB4 in prostate cancer cells by drug-induced targeting of microRNA-17-92/106b-25 clusters. Mol. Cancer Ther. 11, 1852-62 (2012). WB, Human, Bovine, Dog, Pig, Horse, Rabbit, Rat, Guinea pig, Mouse22752225

Images



WB Suggested Anti-ZBTB48 Antibody Titration: .2-1 ug/ml
ELISA Titer: 1:625
Positive Control: Transfected 293T

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.