

# Anti-Human ZBTB2, monoclonal (clone R6.1.3.46F2)

Recommended name: Zinc finger and BTB domain-containing protein 2



Cat. No. m13-048  
Lot. No. 20150624.L.I

Quantity: 100 µg  
Storage: -20 °C

FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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## UniProt / NCBI Summary

### UniProt

Primary Accession # [Q8N680](#)  
Secondary Accession # [Q5SZ81](#)

### NCBI

GI # [24308241](#)  
GenID [57621](#)  
Accession # [NP\\_065912.1](#)  
GenBank Nucleotide # [NM\\_020861.1](#)

Molecular Weight 57,337 Da (514 aa)

May be involved in transcriptional regulation.

Subcellular location: Nucleus.

Sequence similarities: Contains 1 BTB (POZ) domain. Contains 4 C2H2-type zinc fingers.

### General References:

Ying Wang, Xiushan Zheng, Zhiyong Zhang, Jinfeng Zhou, Guohong Zhao, Jianjun Yang, Limin Xia, Rui Wang, Xiqiang Cai, Hao Hu, Cailin Zhu, Yongzhan Nie, Kaichun Wu, Dexin Zhang, Daiming Fan (2012) MicroRNA-149 Inhibits Pro-

*Continued on page 2.*

## Physical Characteristics

Quantity: 100 µg

Concentration: 1.0 mg/ml

Host / Isotype: mouse IgG1

Clonality: monoclonal; R6.1.3.46F2

Immunogen: recombinant protein corresponding to amino acids 248-385 of human ZBTB2

Purification: affinity-chromatography using Protein G

Formulation: 30% glycerol, 1x PBS, 0.02% sodium azide

Specificity: monospecific for human ZBTB2; see microarray analysis below

Reactivity: human

Stability/Storage: 12 months long term: -20 °C; short term: 4 °C; avoid freeze-thaw cycles; aliquot as required

Handling Notes: small volumes of antibody may occasionally become entrapped in the seal of the product vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container cap.

## Tested Research Applications

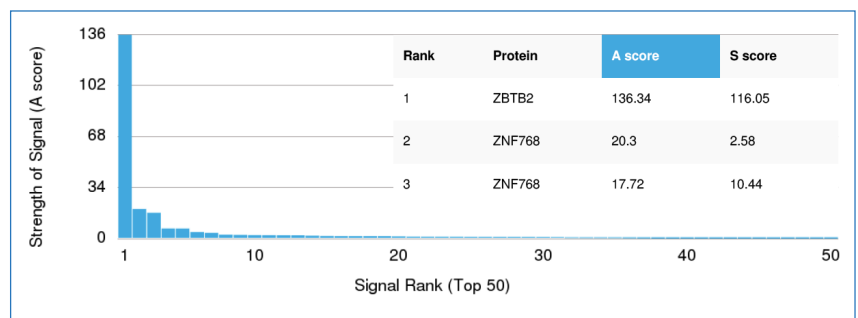
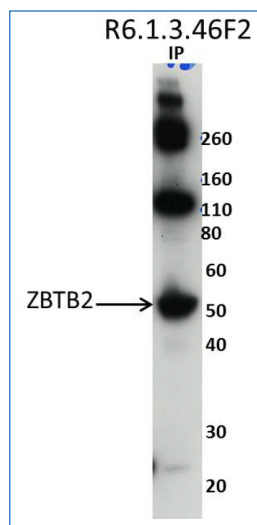
Immunoprecipitation: recommended; see below

ChIP-Seq: recommended; see page 2

## Quality Assurance

### IP Analysis:

Immunoprecipitation of lysate from transfected cells.



Specificity Analysis with HuProt™ Human Proteome Microarray: Anti Human ZBTB2 (clone R6.1.3.46F2) was analyzed using the CDI HuProt™ Human Proteome Microarray.

For more information on A/S scores and how they relate to specificity, see page 2.

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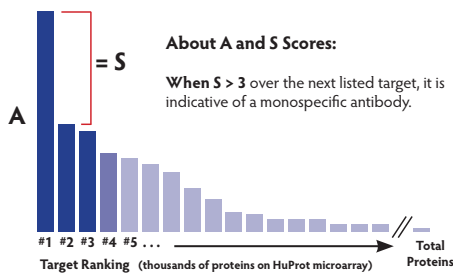
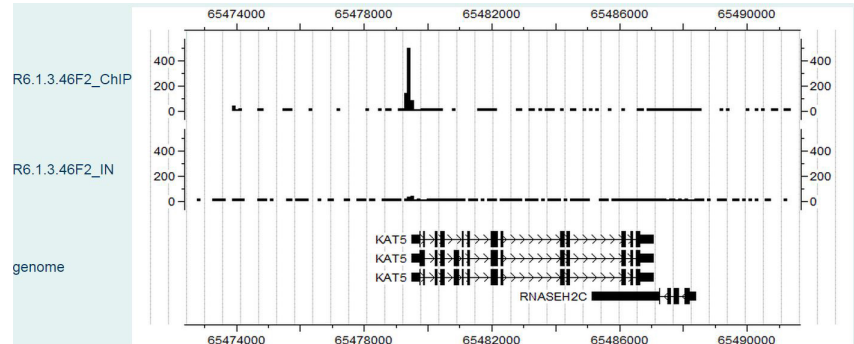
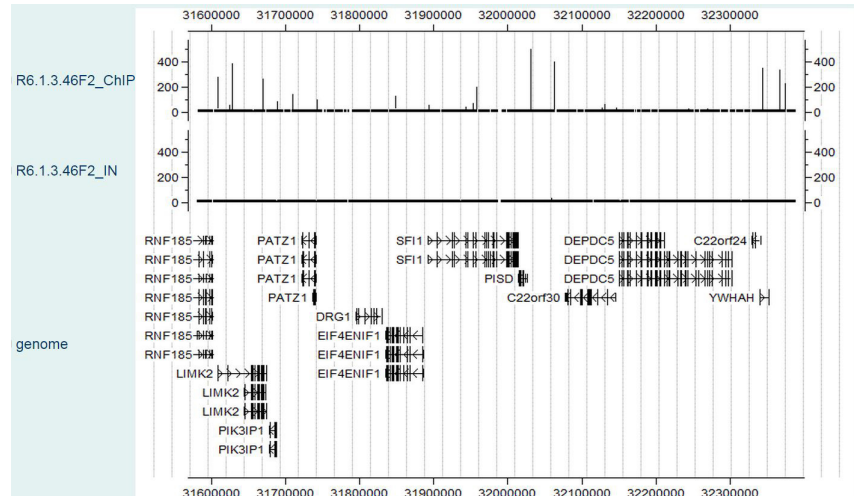
liferation and Cell Cycle Progression through the Targeting of ZBTB2 in Human Gastric Cancer. PLoS One 7(10): e41693. [PubMed]

Bu-Nam Jeon, Won-Il Choi, Mi-Young Yu, A-Rum Yoon, Myung-Hwa Kim, Chae-Ok Yun, Man-Wook Hur (2009) ZBTB2, a Novel Master Regulator of the p53 Pathway. J Biol Chem 284(27): 17935–17946. [PubMed]

J H Cho, M J Kim, K J Kim, J-R Kim (2012) POZ/BTB and AT-hook-containing zinc finger protein 1 (PATZ1) inhibits endothelial cell senescence through a p53 dependent pathway. Cell Death Differ 19(4): 703–712.1. [PubMed]

## Tested Research Applications

ChIP-Seq: Recommended



**Statistical Analysis:** Thousands of GenePix data points (from the microarray) are analyzed in terms of signal strength and ranked accordingly.

**SUMMARY:** The A-score indicates the number of standard deviations above background seen for the mean signal bound by the target antigen. The S-score represents the difference between the A-score of the target antigen and the next best hit on the array. S-scores **greater than 3 standard deviations over the next listed target** are deemed statistically significant and indicate **highly specific antibodies**. More info at [cdi-lab.com/HighSpec.html](http://cdi-lab.com/HighSpec.html)

The ChIP was performed with chromatin from 10 million GM12878 cells and 3 µg of Anti-ZBTB2 (cloneID # R6.1.3.46F2) antibody. The ChIP DNA was sequenced on an Illumina HiSeq platform and read counts were calculated at consecutive 100 bp bins across the human genome hg19. Normalized read-count levels for ChIP-seq of ZBTB2 (R6.1.3.46F2\_ChIP) and control (R6.1.3.46F2\_IN) around the KAT5 and a 800 kb region (chromosome 22: 31600000-32400000) loci are displayed in the CisGenome browser.

The development of this antibody was supported by the National Institutes of Health Protein Capture Reagent Program under award U54HG06434 to CDI Laboratories and Johns Hopkins University.