

Anti-Human ZNF18, monoclonal (clone R177.1.2D2)

Recommended name: Zinc finger protein 18; **Alternative name(s):** Heart development-specific gene 1 protein, Zinc finger protein 535, Zinc finger protein KOX11, Zinc finger protein with KRAB and SCAN domains 6

Cat. No. m15-035
Lot. No. 20150608.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 # [P17022](#)
Secondary Accession # [Q5QHQ3](#)

NCBI

GI # [56118254](#)
GenID [7566](#)
Accession # [NP_653281.2](#)
GenBank Nucleotide # [NM_144680.2](#)

Molecular Weight 62,288 Da (549 aa)

May be involved in transcriptional regulation.

Subcellular location: Nucleus.

Sequence similarities: Belongs to the krueppel C2H2-type zinc-finger protein family. Contains 5 C2H2-type zinc fingers; contains 1 KRAB domain; contains 1 SCAN box domain.

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Physical Characteristics

Quantity: 100 µg

Concentration: 1.0 mg/ml

Host / Isotype: mouse IgG2a

Clonality: monoclonal; ID R177.1.2D2

Immunogen: recombinant protein corresponding to amino acids 6-143 of human ZNF18

Purification: affinity-chromatography using Protein G

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

Specificity: monospecific for human ZNF18; 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

Western Immunoblotting: tested on cells transfected with a construct encoding ZNF18; utility on native cells under evaluation.

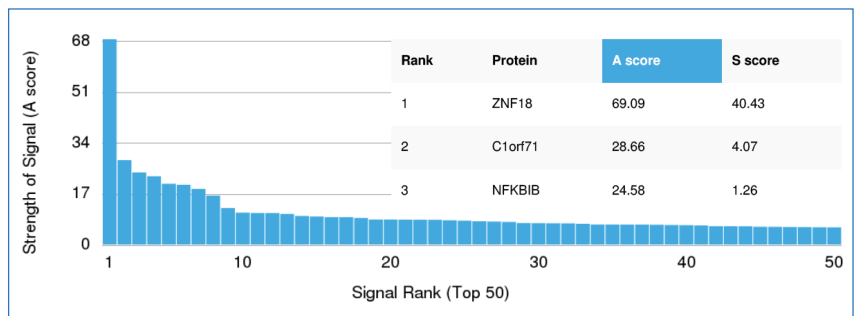
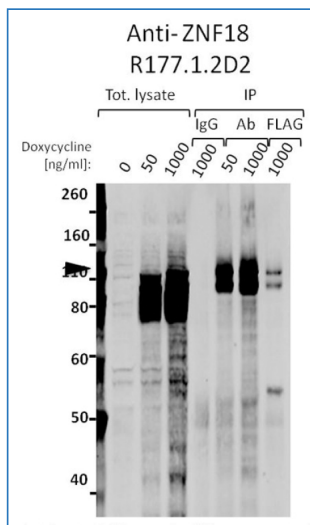
Immunoprecipitation: recommended; see below

ChIP-Seq: recommended; see page 2

Quality Assurance

IP Analysis:

Tet-ON HeLa cells were transfected with construct encoding ZNF18 with an N-terminal fusion of FLAG, YFP (Venus) and V5 tags under a tet-inducible promoter. These cells were stimulated with 0, 50 or 1000 ng/ml doxycycline. Immunoprecipitation (IP) was carried out using 5µg of either IgG, CDI mAb Anti-ZNF18 (clone R177.1.2D2) or 1 µg of FLAG-M2. Immunoblotting was performed using rabbit Anti-FLAG (1:1000, Cell Signaling #2368).



Specificity Analysis with HuProt™ Human Proteome Microarray: Anti Human ZNF18 (clone R177.1.2D2) 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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Continued from page 1.

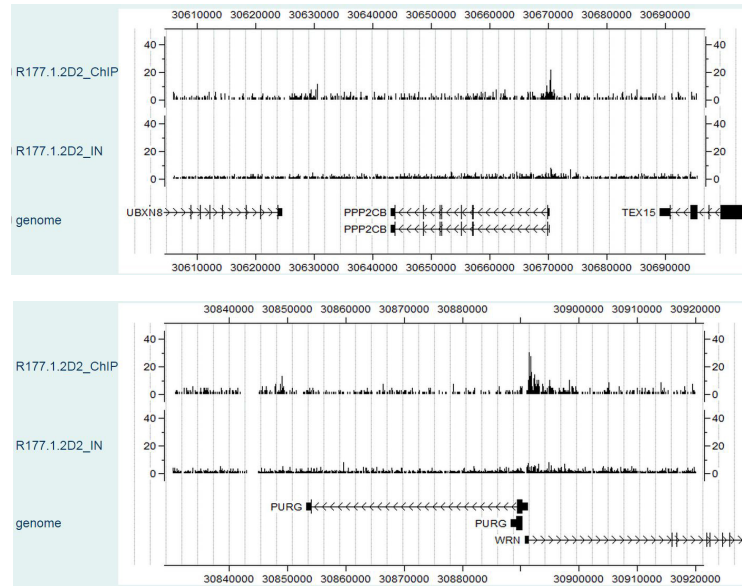
General References:

Guo LL, Shan HS, Zou X, Ci HL, Zai YG, Li YP (2005) Molecular cloning and expression analysis of a novel human gene ZNF18. *Yi Chuan* 27:523-530. [[PubMed](#)]

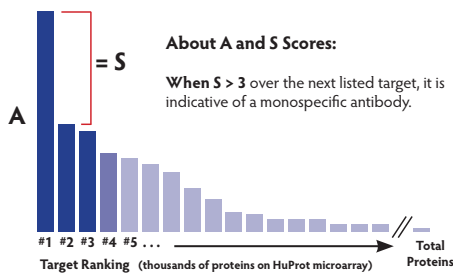
Thiesen H-J (1990) Multiple genes encoding zinc finger domains are expressed in human T cells. *New Biol* 2:363-374. [[PubMed](#)]

Tested Research Applications

ChIP-Seq: Recommended



The ChIP was performed with chromatin from 10 million K562 cells and 3 µg of Anti-ZNF18 (cloneID #R177.1.2D2) 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 ZNF18 (R177.1.2D2_ChIP) and control (R177.1.2D2_IN) around the PPP2CB, PURG and a 3,800,000 bp region (chromosome 8: 25,200,000-29,000,000) are displayed in the CisGenome browser.



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 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.

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