Anti-Human ZXDC, monoclonal (clone RJH98.1.2B5)

Recommended name: Zinc finger protein ZXDC
Alternative name: ZXD-like zinc finger protein

Cat. No.	**m14-284**	**Quantity:**	**100 µg**
Lot. No.	**20140812.DNF**	**Storage:**	**-20˚C**

FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

Uniprot / NCBI Summary

UniProt
Primary Accession # Q2QGD7
Secondary Accession # Q6DKI8; Q7L3L1

NCBI
GI # 296453026
GeneID 79364
Accession # Q2QGD7.2
GenBank Nucleotide # n/a

Molecular Weight 89,988 Da (858 aa)

ZXDC: Cooperates with CIITA to promote transcription of MHC class I and MHC class II genes. Belongs to the ZXD family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: C2H2-type zinc finger protein

Subcellular location: nucleus

General Reference:

Ramsey JE, Fontes JD (2013) The zinc finger transcription factor ZXDC activates CCL2 gene expression by opposing BCL6-mediated repression. *Mol Immunol* **56**:768-780. [PubMed]

Continued on page 2.

Physical Characteristics

Quantity: 100 µg

Concentration: 1.0 mg/ml

Host / Isotype: mouse IgG1

Clonality: monoclonal; ID JH98.1.2B5

Immunogen: full-length recombinant human ZXDC

Purification: affinity-chromatography using Protein G

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

Specificity: monospecific for human ZXDC; 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.

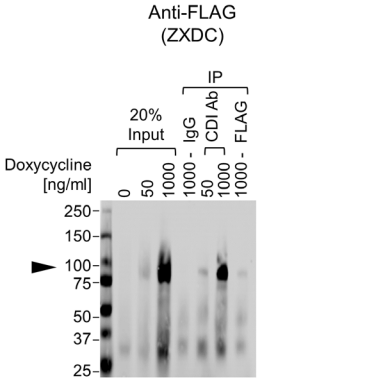
Tested Research Applications

Immunoprecipitation: recommended; see below.

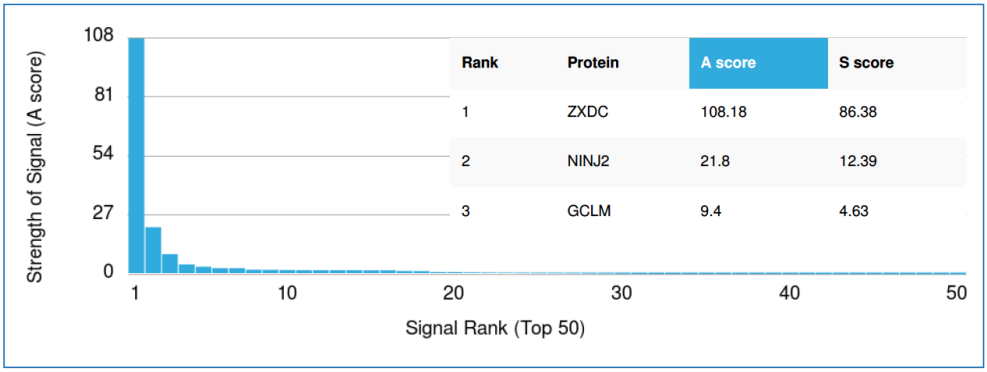
Western Blot: tested on cells transfected with a construct encoding ZXDC; utility on native cells under evaluation

ChIP-Seq: recommended; see page 2

Quality Assurance



Tet-ON HeLa cells were transfected with construct encoding ZXDC (BC002940.1) 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-ZXDC (cloneID# JH98.1.2B5) or 1 µg of FLAG-M2. Immunoblotting was performed using rabbit Anti-FLAG (1:1000, Cell Signaling #2368).



Rank	Protein	A score	S score
1	ZXDC	108.18	86.38
2	NINJ2	21.8	12.39
3	GCLM	9.4	4.63

Specificity Analysis with HuProt™ Human Proteome Microarray: Anti Human ZXDC (clone JH98.1.2B5) 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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Lot-specific Datasheet version tracker: v1.0.0

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Uniprot / NCBI Summary

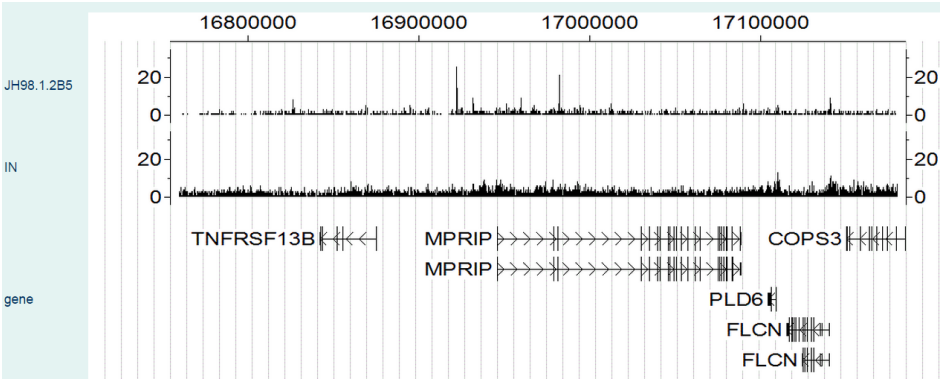
Continued from page 1.

Al-Kandari W, Koneni R, Navalgund V, Aleksandrova A, Jambunathan S, Fontes JD (2007) The zinc finger proteins ZXDA and ZXDC form a complex that binds CIITA and regulates MHC II gene transcription. *J Mol Biol* **369**:1175-87. [PubMed]

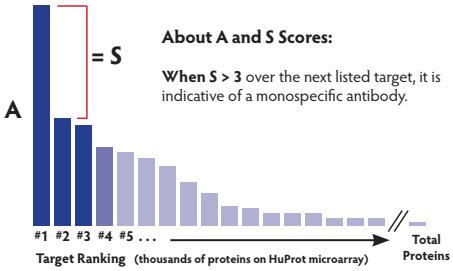
Aleksandrova A, Galkin O, Koneni R, Fontes JD (2010) An N- and C-terminal truncated isoform of zinc finger X-linked duplicated C protein represses MHC class II transcription. *Mol Cell Biochem* **337**:1-7. [PubMed]

Tested Research Applications

ChIP-Seq: Recommended



The ChIP was performed with chromatin from 10 million HCT116 cells or Hela cells and 3 µg of Anti-ZXDC (cloneID # JH98.1.2B5) 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 ZXDC (JH98.1.2B5) and control (IN) around the MPRIP loci are displayed in the CisGenome browser.



About A and S Scores:

When S > 3 over the next listed target, it is indicative of a monospecific antibody.

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

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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