Anti-Human ZNF701, monoclonal (clone R1015.1.1C5)

Recommended name: Zinc finger protein 701; Short name: ZNF701

Cat. No.	**m14-316**	**Quantity:**	**100 µg**
Lot. No.	**20150924.IJVR**	**Storage:**	**-20˚C**

FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

Uniprot / NCBI Summary

UniProt
Primary Accession # Q9NV72
Secondary Accession # Q66K42; A2RRM8

NCBI
GI # 289547638
GeneID 55762
Accession # NP_060730.2
GenBank Nucleotide # NM_018260.2

Molecular Weight 60,903 Da (531 aa)

May be involved in transcriptional regulation. Belongs to the krueppel C2H2-type zinc-finger protein family. Contains 9 C2H2-type zinc fingers and 1 KRAB domain.

Subcellular location: nucleus

Physical Characteristics

Quantity: 100 µg

Concentration: 1.0 mg/ml

Host / Isotype: mouse IgG1

Clonality: monoclonal; ID JR1015.1.1C5

Immunogen: recombinant protein corresponding to aa residues 122-267 of human ZNF701

Purification: affinity-chromatography using Protein G

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

Specificity: monospecific for human ZNF701; 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

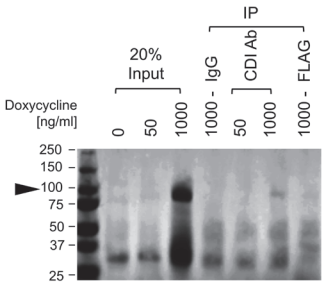
Immunoprecipitation: recommended; see below.

ChIP-Seq: recommended; see page 2

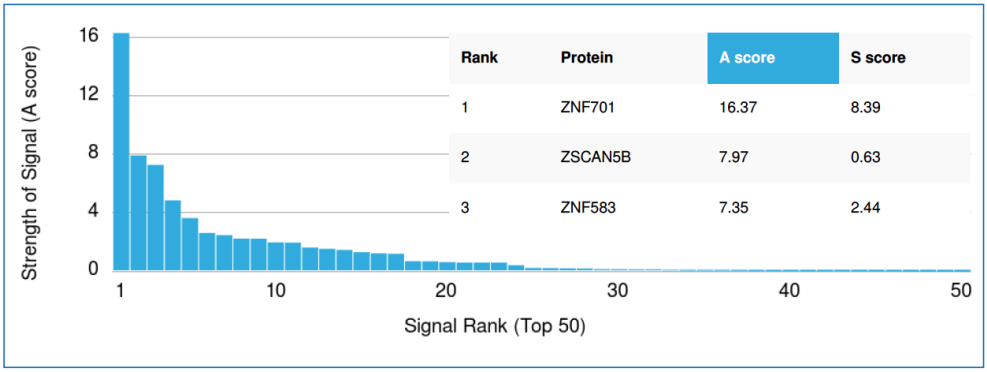
Western Blot: tested on cells transfected with a construct encoding ZNF701; utility on native cells under evaluation

Octet:
Recommended.

Quality Assurance



Tet-ON HeLa cells were transfected with construct encoding ZNF701 (NM_001172655.1) 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-ZNF701 (cloneID# R1015.1.1C5) 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	ZNF701	16.37	8.39
2	ZSCAN5B	7.97	0.63
3	ZNF583	7.35	2.44

Specificity Analysis with HuProt™ Human Proteome Microarray: Anti Human ZNF701 (clone R1015.1.1C5) 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.

Guanajibo Research and Innovation Park
4005 St B Road 114 Km 1.3
Mayaguez, PR 00682

T 787.806-4100 Ext 233
F 787.806-4006
www.cdi-lab.com

Lot-specific Datasheet version tracker: v1.0.0

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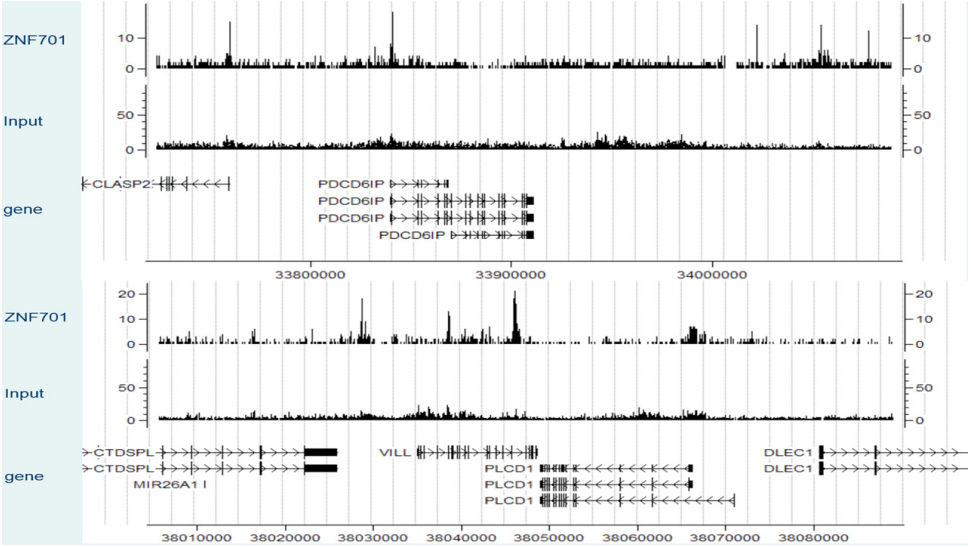
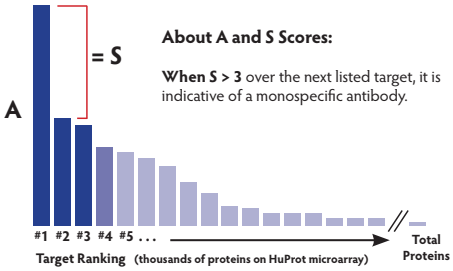
Tested Research Applications

ChIP-Seq: Recommended



The ChIP was performed with chromatin from 10 million MCF7 cells and 3 µg of Anti-ZNF701 (cloneID # R1015.1.1C5) 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 ZNF701 (R1015.1.1C5) and control (Input) around the PDCD6IP and VILL 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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