

Anti-Human ZNF639, monoclonal (clone R270.2.2B2)

Recommended name: Zinc finger protein 639

Alternative name(s): Zinc finger protein ANC_2H01, Zinc finger protein ZASC1

Cat. No. m13-049
Lot. No. 20141023.LRH

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 # [Q9UID6](#)
Secondary Accession # [A9X3Z9](#)

NCBI

GI # [18088515](#)
GeneID [51193](#)
Accession # [BC020500](#)

Molecular Weight 56,054Da (485 aa)

Binds DNA and may function as a transcriptional repressor.

Subunit structure: Interacts with CTNNA2.

Subcellular location: Nucleus.

Sequence similarities: Belongs to the krueppel C2H2-type zinc-finger protein family. Contains 8 C2H2-type zinc fingers.

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Physical Characteristics

Quantity: 100 µg

Concentration: 1.0 mg/ml

Host / Isotype: mouse IgG2a

Clonality: monoclonal; ID R270.2.2B2

Immunogen: recombinant protein corresponding to amino acids 406-485 of human ZNF639

Purification: affinity-chromatography using Protein G

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

Specificity: monospecific for human ZNF639; 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 ZNF639; utility on native cells under evaluation

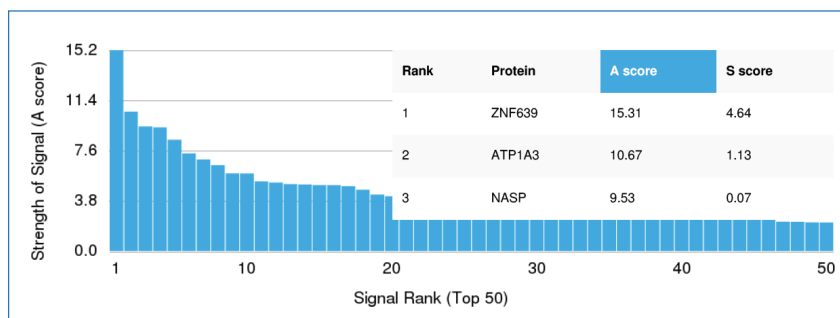
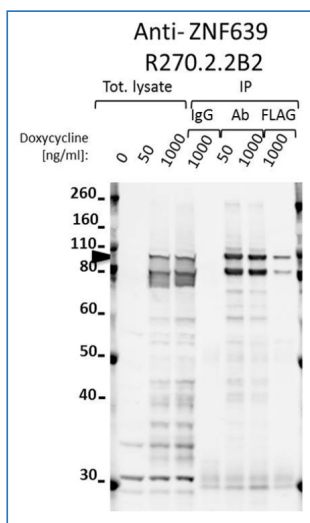
Immunoprecipitation: recommended; see below

ChIP-Seq: recommended; see page 2

Quality Assurance

IP Analysis:

Tet-ON HeLa cells were transfected with construct encoding ZNF639 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 5 µg of either IgG, CDI mAb Anti-ZNF639 (cloneID# R270.2.2B2) 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 ZNF639 (clone R270.2.2B2) 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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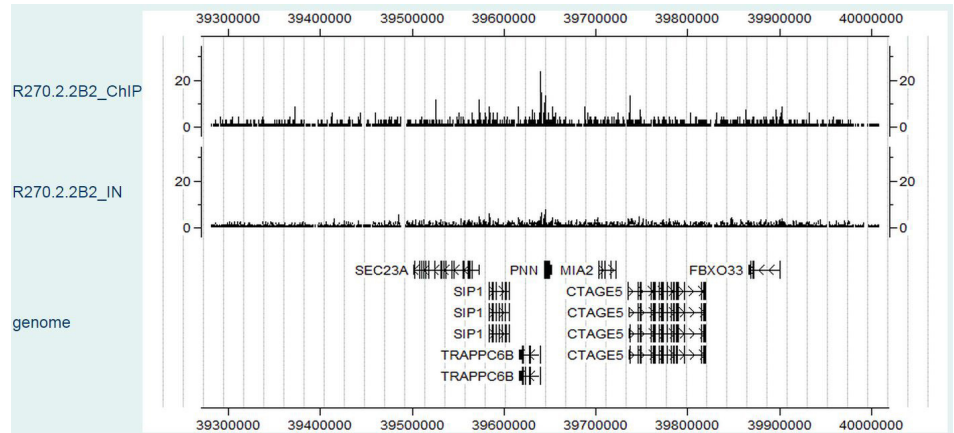
General References:

Bogaerts S, Vanlandschoot A, van Hengel J, van Roy F (2005) Nuclear translocation of alphaN-catenin by the novel zinc finger transcriptional repressor ZASC1. *Exp Cell Res* 311:1-13. [\[PubMed\]](#)

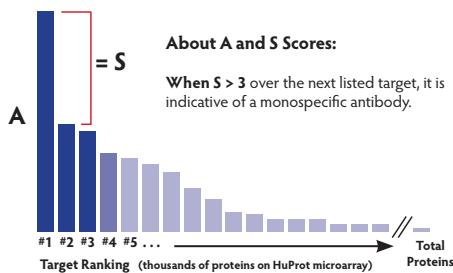
Imoto I, Yuki Y, Sonoda I, Ito T, Shimada Y, Imamura M, Inazawa J (2003) Identification of ZASC1 encoding a Kruppel-like zinc finger protein as a novel target for 3q26 amplification in esophageal squamous cell carcinomas. *Cancer Res* 63:5691-5696. [\[PubMed\]](#)

Tested Research Applications

ChIP-Seq: Recommended



The ChIP was performed with chromatin from 10 million K562 cells and 3 µg of Anti-ZNF639 (cloneID #R270.2.2B2) 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 ZNF639 (R270.2.2B2_ChIP) and control (R270.2.2B2_IN) around the PNN and a 1,500,000 bp region (chromosome 15: 40,400,000-41,900,000) 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.