Anti-Human ZNF410, monoclonal (clone R585.2.2C9)

Recommended name: Zinc finger protein 410
Alternative name(s): another partner for ARF 1; zinc finger protein APA-1; clones 23667 and 23775 zinc finger protein

Cat. No.	**m14-038**	**Quantity:**	**100 µg**
Lot. No.	**20150825.IJVR**	**Storage:**	**-20˚C**

FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

Uniprot / NCBI Summary

UniProt
Primary Accession # Q53FM1
Secondary Accession # Q53FM1; Q86VK4

NCBI
GI # 10863995
GeneID 57862
Accession # NP_067011.1
GenBank Nucleotide # NM_021188.2

Molecular Weight 52,086 Da (478 aa)

Transcription factor that activates transcription of matrix-remodeling genes such as MMP1 during fibroblast senescence.

Subcellular location: nucleus

General Reference:

Benanti JA, Williams DK, Robinson KL, Ozer HL, Galloway DA (2002) Induction of extracellular matrix-remodeling genes by the senescence-associated protein APA-1. *Mol Cell Biol* **22**:7385-97. [PubMed]

Physical Characteristics

Quantity: 100 µg

Concentration: 1.0 mg/ml

Host / Isotype: mouse IgG2b

Clonality: monoclonal; ID R585.2.2C9

Immunogen: recombinant protein corresponding to aa residues 129-478 of human ZNF410

Purification: affinity-chromatography using Protein G

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

Specificity: monospecific for human ZNF410; 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

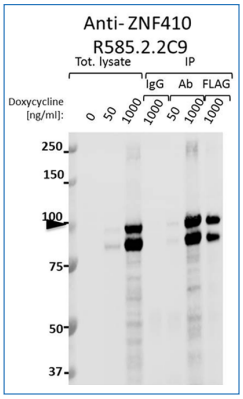
Immunoprecipitation: recommended; see below.

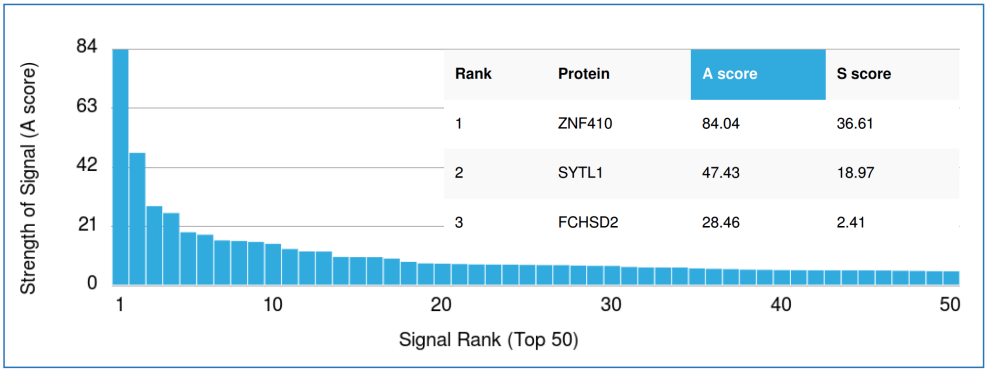
Western Blot: tested on cells transfected with a construct encoding ZNF410; utility on native cells under evaluation

ChIP-Seq: recommended; see page 2

Quality Assurance

IP Analysis: Tet-ON HeLa cells were transfected with construct encoding ZNF410 (Q86VK4) 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 ZNF410 (cloneID# R585.2.2C9) or 1 µg of FLAG-M2 (Sigma). Immunoblotting was performed using rabbit Anti-FLAG (1:1000, Cell Signaling #2368).





Specificity Analysis with HuProt™ Human Proteome Microarray: Anti Human ZNF410 (clone R585.2.2C9) 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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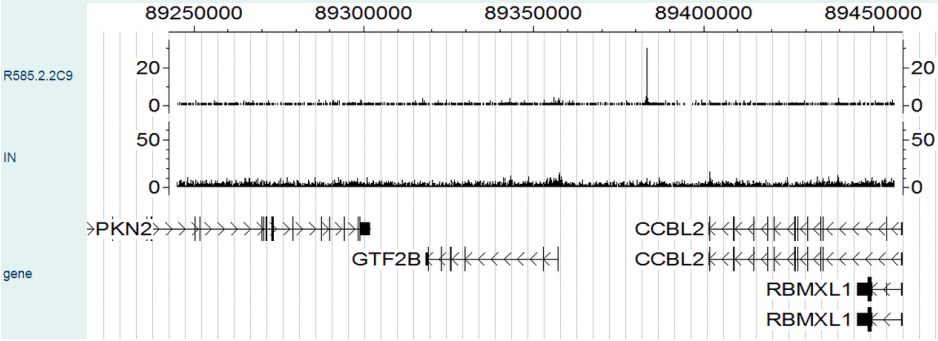
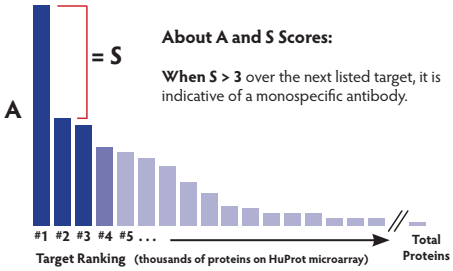
Tested Research Applications

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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