

# MAZ (A-17): sc-13485

## BACKGROUND

The Myc-associated zinc finger protein MAZ (also designated ZF87, and Pur-1 in mouse) is a transcription factor that participates in both the initiation and termination of transcription of target genes. MAZ functions as a true transcriptional repressor in that it represses transcription independent of the c-Myc promoter. Both MAZ and SP1 bind to the parathyroid hormone (PTH)/PTH-related peptide receptor promoter, thereby influencing the cell-specific expression of its gene product. MAZ and SP1 also regulate expression from the serotonin 1A receptor gene promoter, suggesting that MAZ may act on a variety of promoters through G-C rich sequences, which serve as binding sites for the SP1 family of transcription factors. Competition between SP1 and MAZ controls tissue-specific expression of the PNMT gene. The interaction of MAZ with the transcriptional repressor FAC1 may affect gene regulation in neurodegeneration. MAZ also acts as a growth suppressor protein, in part by affecting the levels of key cell cycle regulatory proteins such as cyclin A and E.

## REFERENCES

1. Parks, C.L. and Shenk, T. 1996. The serotonin 1A receptor gene contains a TAT-less promoter that responds to MAZ and Sp1. *J. Biol. Chem.* 271: 4417-4430.
2. Song, J., Murakami, H., Tsutsui, H., Tang, X., Matsumura, M., Itakura, K., Kanazawa, I., Sun, K. and Yokoyama, K.K. 1998. Genomic organization and expression of a human gene for Myc-associated zinc finger protein (MAZ). *J. Biol. Chem.* 273: 20603-20614.
3. Song, J., Murakami, H., Yang, Z.Q., Koga, C., Adati, N., Murata, T., Geltinger, C., Saito-Ohara, F., Ikeuchi, T., Matsumura, M., Itakura, K., Kanazawa, I., Sun, K. and Yokoyama, K.K. 1998. Human genes for KNSL4 and MAZ are located close to one another on chromosome 16p11.2. *Genomics* 52: 374-377.

## CHROMOSOMAL LOCATION

Genetic locus: MAZ (human) mapping to 16p11.2; Maz (mouse) mapping to 7 F3.

## SOURCE

MAZ (A-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MAZ of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-13485 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-13485 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

MAZ (A-17) is recommended for detection of MAZ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

MAZ (A-17) is also recommended for detection of MAZ in additional species, including equine and porcine.

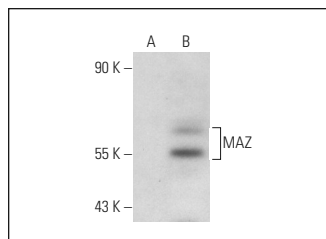
Suitable for use as control antibody for MAZ siRNA (h): sc-38035, MAZ siRNA (m): sc-38036, MAZ shRNA Plasmid (h): sc-38035-SH, MAZ shRNA Plasmid (m): sc-38036-SH, MAZ shRNA (h) Lentiviral Particles: sc-38035-V and MAZ shRNA (m) Lentiviral Particles: sc-38036-V.

MAZ (A-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

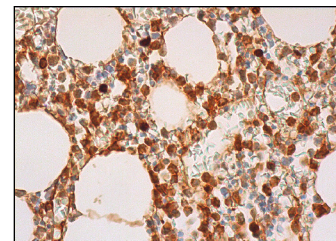
Molecular Weight of MAZ: 60 kDa.

Positive Controls: MAZ (m): 293 Lysate: sc-178924.

## DATA



MAZ (A-17): sc-13485. Western blot analysis of MAZ expression in non-transfected: sc-110760 (A) and mouse MAZ transfected: sc-178924 (B) 293 whole cell lysates.



MAZ (A-17): sc-13485. Immunoperoxidase staining of formalin fixed, paraffin-embedded human bone marrow tissue showing nuclear and cytoplasmic staining of hematopoietic cells.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **MAZ (133.7): sc-130915**, our highly recommended monoclonal alternative to MAZ (A-17).