MAZ (133.7): sc-130915

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 C-C rich sequences, which serve as binding sites for the Sp1 family of transcription factors. Competition between Sp1 and MAZ control tissue-specific expression of the PNMT gene. The interaction of MAZ with the transcriptional repressor FAC1 may affect gene regulation by affecting the levels of key cell cycle regulatory proteins such as cyclin A and E.

REFERENCES


CHROMOSOMAL LOCATION

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

RESEARCH USE

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

SOURCE

MAZ (133.7) is a mouse monoclonal antibody raised against a heparin-maltose purified MAZ-maltose binding fusion protein of human origin.

PRODUCT

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

MAZ (133.7) is recommended for detection of MAZ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:1000-1:10000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

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.

Molecular Weight of MAZ: 60 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, Jurkat whole cell lysate: sc-2204 or Neuro-2A whole cell lysate: sc-364185.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102, or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140, m-IgG BP-PE: sc-516141 (dilution range 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA

MAZ (133.7): sc-130915. Western blot analysis of MAZ expression in Hep G2 (A), Jurkat (B) and THP-1 (C) whole cell lysates.

STORAGE

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