

MRGBP (P-16): sc-85766

BACKGROUND

In the nucleosomes of eukaryotic chromatin, DNA is wound around a class of proteins known as histones. Posttranslational modification of histones alters interaction with the DNA molecule. This interaction plays a major role in regulation of transcription, DNA repair and chromosome condensation. There are two copies each of four core histones (H2A, H2B, H3 and H4) within the nucleosome. MRGBP (MRG-binding protein), also known as C20orf20, is a 204 amino acid protein which is a part of the NuA4 histone acetyltransferase (HAT) complex that acts to acetylate histone H2A and H4. The NuA4 histone acetyltransferase complex is a nuclear enzyme that contains the catalytic subunit HTATIP/TIP60. MRGBP has potential to interact with MORF4L1/MRG15 and MORF4L2/MRGX. Human MRGBP contains two phosphoserine residues at position 191 and 195.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C20orf20 (human) mapping to 20q13.33; 1600027N09Rik (mouse) mapping to 2 H4.

SOURCE

MRGBP (P-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of MRGBP of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85766 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MRGBP (P-16) is recommended for detection of MRGBP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

MRGBP (P-16) is also recommended for detection of MRGBP in additional species, including bovine and avian.

Suitable for use as control antibody for MRGBP siRNA (h): sc-75822, MRGBP siRNA (m): sc-149568, MRGBP shRNA Plasmid (h): sc-75822-SH, MRGBP shRNA Plasmid (m): sc-149568-SH, MRGBP shRNA (h) Lentiviral Particles: sc-75822-V and MRGBP shRNA (m) Lentiviral Particles: sc-149568-V.

Molecular Weight of MRGBP: 22 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.