

MRGBP (E-21): sc-133791

BACKGROUND

In the nucleosomes of eukaryotic chromatin, DNA is wound around a class of proteins known as histones. Post-translational 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.

SOURCE

MRGBP (E-21) is an affinity purified rabbit polyclonal antibody raised against synthetic MRGBP peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

RESEARCH USE

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

APPLICATIONS

MRGBP (E-21) is recommended for detection of MRGBP of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

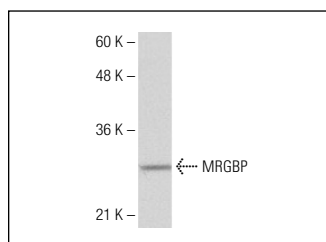
Molecular Weight of MRGBP: 22 kDa.

Positive Controls: 293T whole cell lysate.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



MRGBP (E-21): sc-133791. Western blot analysis of human MRGBP transfected 293T whole cell lysate.

STORAGE

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

PROTOCOLS

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