

MIBP1 (T-18): sc-10681

BACKGROUND

MIBP1 (c-Myc intron 1 binding protein), previously named MBP-2 and HIV-EP2, is a nuclear protein that contains two zinc-finger regions, a nuclear translocation signal, and an acidic region. MIBP1 is expressed in both embryonic as well as adult brain and skeletal muscle. MIBP1 binds specifically to the SSTR-2 (somatostatin hormone receptor) promoter via the TC box, which is required for enhanced promoter activity. The binding of MIBP1 to SSTR-2 activates transcription from the SSTR-2 promoter. Expression of SSTR-2 regulates the adenohypophyseal release of growth hormone, thyroid-stimulating hormone, and prolactin, thereby modulating many cognitive and vegetative functions. The transcription function of MIBP1 implies that MIBP1 may play an important role in the development of nervous and neuroendocrine tissues.

REFERENCES

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7. Tannenbaum, G.S., et al. 1998. Growth hormone-releasing hormone neurons in the arcuate nucleus express both SST1 and SST2 somatostatin receptor genes. *Endocrinol.* 139: 1450-1453.
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CHROMOSOMAL LOCATION

Genetic locus: HIVEP2 (human) mapping to 6q24.2.

SOURCE

MIBP1 (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of MIBP1 of human origin.

RESEARCH USE

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

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-10681 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-10681 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MIBP1 (T-18) is recommended for detection of MIBP1 of 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).

MIBP1 (T-18) is also recommended for detection of MIBP1 in additional species, including equine.

Suitable for use as control antibody for MIBP1 siRNA (h): sc-38037, MIBP1 shRNA Plasmid (h): sc-38037-SH and MIBP1 shRNA (h) Lentiviral Particles: sc-38037-V.

MIBP1 (T-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of MIBP1: 275 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.

PROTOCOLS

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


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Try **MIBP1 (2418C2a): sc-130637**, our highly recommended monoclonal alternative to MIBP1 (T-18).