

Mac-2BP (Y-16): sc-74970

BACKGROUND

Mac-2BP (Mac-2-binding protein), also known as LGALS3BP (lectin, galactoside-binding, soluble, 3 binding protein), 90K or BTBD17B, is a 585 amino acid protein that is secreted into the extracellular matrix and contains one SRCR domain, one BTB (POZ) domain and one BACK domain. Expressed ubiquitously, Mac-2BP exists as both a homodimer and a homomultimer and functions to promote Integrin-mediated cell adhesion, possibly playing a role in the stimulation of host defenses against tumor cells and viruses. Mac-2BP levels are elevated in HIV-infected hosts, further implicating Mac-2BP in immune system function. The gene encoding Mac-2BP maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

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3. Ullrich, A., et al. 1994. The secreted tumor-associated antigen 90K is a potent immune stimulator. *J. Biol. Chem.* 269: 18401-18407.
4. Calabrese, G., et al. 1995. The gene (LGALS3BP) encoding the serum protein 90K, associated with cancer and infection by the human immunodeficiency virus, maps at 17q25. *Cytogenet. Cell Genet.* 69: 223-225.
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6. Online Mendelian Inheritance in Man, OMIM[™]. 1998. Johns Hopkins University, Baltimore, MD. MIM Number: 600626. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
7. Park, Y.P., et al. 2008. Induction of Mac-2BP by nerve growth factor is regulated by the PI3K/Akt/NFκB-dependent pathway in the HEK293 cell line. *BMB Rep.* 41: 784-789.
8. Becker, R., et al. 2008. Tumor stroma marker endosialin (Tem1) is a binding partner of metastasis-related protein Mac-2 BP/90K. *FASEB J.* 22: 3059-3067.
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CHROMOSOMAL LOCATION

Genetic locus: LGALS3BP (human) mapping to 17q25.3; Lgals3bp (mouse) mapping to 11 E2.

SOURCE

Mac-2BP (Y-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Mac-2BP 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.

Blocking peptide available for competition studies, sc-74970 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Mac-2BP (Y-16) is recommended for detection of Mac-2BP 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).

Mac-2BP (Y-16) is also recommended for detection of Mac-2BP in additional species, including equine and canine.

Suitable for use as control antibody for Mac-2BP siRNA (h): sc-75722, Mac-2BP siRNA (m): sc-75723, Mac-2BP shRNA Plasmid (h): sc-75722-SH, Mac-2BP shRNA Plasmid (m): sc-75723-SH, Mac-2BP shRNA (h) Lentiviral Particles: sc-75722-V and Mac-2BP shRNA (m) Lentiviral Particles: sc-75723-V.

Molecular Weight of Mac-2BP: 90 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.

SELECT PRODUCT CITATIONS

1. Nazarenko, I., et al. 2010. Cell surface tetraspanin Tspan8 contributes to molecular pathways of exosome-induced endothelial cell activation. *Cancer Res.* 70: 1668-1078.

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.



Try **Mac-2BP (E-8): sc-374541**, our highly recommended monoclonal alternative to Mac-2BP (Y-16).