

Mac-2BP (H-300): sc-98706

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

1. Iacobelli, S., et al. 1993. Purification and characterization of a 90 kDa protein released from human tumors and tumor cell lines. *FEBS Lett.* 319: 59-65.
2. Koths, K., et al. 1993. Cloning and characterization of a human Mac-2-binding protein, a new member of the superfamily defined by the macrophage scavenger receptor cysteine-rich domain. *J. Biol. Chem.* 268: 14245-14249.
3. Ullrich, A., et al. 1994. The secreted tumor-associated antigen 90K is a potent immune stimulator. *J. Biol. Chem.* 269: 18401-18407.

CHROMOSOMAL LOCATION

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

SOURCE

Mac-2BP (H-300) is a rabbit polyclonal antibody raised against amino acids 84-383 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.

APPLICATIONS

Mac-2BP (H-300) is recommended for detection of Mac-2BP of human and, to a lesser extent, mouse and rat 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

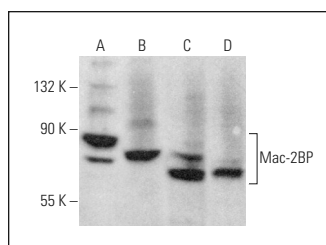
Suitable for use as control antibody for Mac-2BP siRNA (h): sc-75722, Mac-2BP siRNA (m): sc-75723, Mac-2BP shRNA Plasmid (h): sc-75722-SH, Mac-2BP shRNA Plasmid (m): sc-75723-SH, Mac-2BP shRNA (h) Lentiviral Particles: sc-75722-V and Mac-2BP shRNA (m) Lentiviral Particles: sc-75723-V.

Molecular Weight of Mac-2BP: 90 kDa.

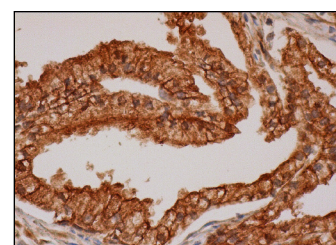
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use 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). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Mac-2BP (H-300): sc-98706. Western blot analysis of Mac-2BP expression in HeLa (A), RT-4 (B), NIH/3T3 (C) and PC-12 (D) whole cell lysates.



Mac-2BP (H-300): sc-98706. Immunoperoxidase staining of formalin fixed, paraffin-embedded human prostate tissue showing cytoplasmic and membrane staining of glandular cells.

SELECT PRODUCT CITATIONS

1. Wang, H.X., et al. 2013. NADPH oxidases mediate a cellular "memory" of angiotensin II stress in hypertensive cardiac hypertrophy. *Free Radic. Biol. Med.* 65: 897-907.
2. Jiang, H.M., et al. 2013. Role for granulocyte colony stimulating factor in angiotensin II-induced neutrophil recruitment and cardiac fibrosis in mice. *Am. J. Hypertens.* 26: 1224-1233.
3. Song, L., et al. 2014. Inhibition of 12/15 lipoxygenase by baicalein reduces myocardial ischemia/reperfusion injury via modulation of multiple signaling pathways. *Apoptosis* 19: 567-580.

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 (H-300).