

## Anti-human 90K (clone SP-2)

Catalog No: MP-AA-1

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### BACKGROUND

90K, also known as Mac-2BP or LGALS3BP (lectin, galactoside binding, soluble, 3 binding protein) is a large oligomeric protein that was originally identified as a secreted tumor-associated antigen [1,2] and as a ligand of galectin-3 (formerly Mac-2).[3] 90K has a role in cell adhesive processes. Increased homotypic cell-cell aggregation *via* interaction with galectin-3 and galectin-1 on the surface of adjacent cells[4,5] as well as cell adhesion and spreading *via* binding to collagens, fibronectin and  $\beta$ 1-integrins [6,7] have been found after exposure of tumor cells to 90K. Elevated expression levels of 90K, both in the serum and tumoral tissue, have been associated with a shorter survival, the occurrence of metastasis or a reduced response to chemotherapy in patients with malignancies of various origin [8,9].

### PRODUCT

Each vial contains the indicated amount of IgG in PBS with 0,05 % sodium azide.  
Centrifuge the vial prior to use.

### SUBCLASS

Mouse IgG1.

### STORAGE

Store at 4°C, avoid repeated freezing-thawing. Stable for one year.

### SHIPPING CONDITIONS

Room temperature.

### RESEARCH USE

This antibody is sold for laboratory research use only, not for human or in-vivo use.

### APPLICATIONS

#### *Immunohistochemistry & Immunofluorescence*

MP-AA-1 can be used to stain acetone-fixed cryostat sections and cell smears. The antibody may be used at a dilution of 2  $\mu$ g/ml.

#### *Western Blot*

MP-AA-1 is also suitable for Western blot analysis under non-denaturing conditions. Suggested dilution: 0.5  $\mu$ g/ml.

#### *Solid Phase ELISA*

The antibody can be used to detect 90K in human cell and tissue extracts and fluids, including serum or plasma, saliva, tears. For coating 96-well microplates, the antibody may be used at a dilution of 5  $\mu$ g/ml.

#### *Immunoprecipitation*

For immunoprecipitation, MP-AA-1 may be used at a concentration of 2  $\mu$ g/ml.

### REFERENCES

1. *Cancer Res* (1986) **46**: 3005-10
  2. *Breast Cancer Res Treat* (1988) **11**: 19-30
  3. *J Biol Chem* (1991) **266**: 18731-36
  4. *Cancer Res* (1996) **56**: 4530-34
  5. *Int J Cancer* (2001) **91**: 167-72
  6. *EMBO J* (1998) **17**: 1606-13
  7. *Blood* (2000) **96**: 3282-85
  8. *Cancer Res* (2002) **62**: 2535-39
  9. *Int J Cancer* (2009) **124**: 333-8
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