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## **Polyclonal Antibody To Mouse Osteopontin**

### **Rabbit Anti Mouse Bone Sialoprotein-1, Secreted Phosphoprotein-1 (SPP-1)**

Osteopontin is an extensively phosphorylated and glycosylated 278-residue chemokine. It interacts with alpha-V/beta-3, CD44 and other adhesion structures. Biologically, it appears to form part of the mineralized matrix and is involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10. Immunohistological detection and plasma levels are correlated with poor outcome in neoplastic diseases. The antibody has been generated by repeated immunizations of rabbits with purified mouse osteopontin.

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**Product number: T-2501**

**Clone: polyclonal**

**Lot: 02PS1010**

### **TECHNICAL AND ANALYTICAL CHARACTERISTICS:**

**Host species, subclass:** Rabbit IgG

**Quantity:** 500µl

**Format:** Lyophilized antiserum

Reconstitute by adding 0.5ml distilled water. This stock solution contains rabbit antiserum, phosphate buffered saline pH 7.2 (PBS) and 0.09% sodium azide as a preservative.

**Stability:** Original vial: 1 year at 4° - 8°C.

**Applications:** Tested for immunohistochemistry (IHC). Has been described to work in ELISA and western blot.

#### **Approximate working dilution for IHC:**

Frozen sections: 1:500

Paraffin sections: 1:100 (Pretreatment not necessary).

Optimal dilutions should be determined by the end user.

Suggested positive control: mouse kidney.

Please see **www.bma.ch** for protocols and general information.

**Immunogen:** Purified osteopontin from mouse kidney cell culture.

**Antigen, epitope:** Mouse osteopontin; the antigen migrates as a 55kDa band in 4-12% Bis Tris gel with MOPS buffer. 60-65kDa and 110kDa bands have been noted with other protocols.

**Species specificity:** Mouse; some cross reactivity with rat, pig and human urinary osteopontin has been described.

**Literature:**

Worcester, EM et al.: The calcium oxalate crystal growth inhibitor produced by mouse kidney cortical cells in culture is osteopontin. *Journal of Bone and Mineral Research* 7 (9): 1029-36 (1992)

Wesson, JA et al.: Osteopontin is a critical inhibitor of calcium oxalate crystal formation and retention in renal tubules. *Journal of the American Society of Nephrology* 14 (1): 139-47 (2003)

Kleinman, JG et al.: Expression of osteopontin, a urinary inhibitor of stone mineral crystal growth, in rat kidney. *Kidney International* 47 (6): 1585-96 (1995)

Kleinman, JG et al.: Upregulation of osteopontin expression by ischemia in rat kidney. *Annals of the New York Academy of Sciences* 760: 321–3 (1995)

Worcester, EM et al.: Osteopontin production by cultured kidney cells. *Annals of the New York Academy of Sciences* 760: 266-78 (1995)

For in vitro research only. Caution: this product contains sodium azide, a poisonous and hazardous substance.