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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.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-2501 (Lot 02PS1010)
Clone:	Polyclonal antibody
Host species, isotype:	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 from date of purchase.
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
	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
Protein database:	mouse-P10923
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.

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Selected references

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)

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For in vitro research only. This product contains sodium azide as a preservative.

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