IBL Data Sheet

Code No. 18628

Anti-Rat
Osteopontin (O-17) Rabbit IgG Affinity Purify

Volume : 100 µg

Introduction : Osteopontin (OPN) is a secreted glycoprotein that was originally isolated from bone. Its molecular weights have been reported in the range of 66 kDa to 44 kDa depending on glycosylation and phosphorylation. OPN is also known to be expressed in other fluids and tissues including milk, urine, activated T cells, smooth muscle cells, kidney and some tumor cells. OPN contains an Arg-Gly-Asp (RGD) amino acid sequence. This motif is present in fibronectin, vitronectin and a variety of other extra-cellular proteins that bind members of the integrin family of cell surface receptors such as αvβ3. OPN was identified as a ligand for CD44, which levels correlate with aggressiveness of lymphoid tumors and invasiveness of bladder carcinoma. Its interaction does not require RGD motif of OPN. In OPN knockout mice, it has been reported that a significantly decreased level of debridement was shown. Although the distribution and expression pattern of OPN in the human body have suggested the multiple function of OPN, its function under different situations remain obscure.

Antigen : Synthetic peptide of the N-terminal part of rat Osteopontin (LPVKVAEFGSSEEKAHY)

Purification : Purified with antigen peptide

Form : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN_3

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

Stability : Lyophilized product, 5 years at 2 – 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after microwave treatment. The optimal concentration is about 1 - 2 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of about 2 µg /mL.

Specificity : Reacts with both recombinant and native form of rat Osteopontin.
Detectable for rat Osteopontin thrombin digested form.
Does not cross-react with human and mouse Osteopontin

Reference : 1. Kon S. *et al*. Antibodies to different peptides in osteopontin reveal complexities in the various secreted forms. J. Cell Biochem 2000 Jun; 77(3): 487-498.

Distributed by:
Immuno-Biological Laboratories, Inc.
8201 Central Ave NE, Suite P
Minneapolis, MN 55432
Toll-Free: 888-523-1246
Email: info@IBL-America.com
Web: www.IBL-America.com

Immuno-Biological
Laboratories Co., Ltd.