Osteopontin (OSP) / Secreted Phosphoprotein 1 (SPP1) Antibody

Rat Monoclonal Antibody [Clone OSP/4589]

Catalog No	Format	Size
6696-RTM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6696-RTM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6696-RTM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

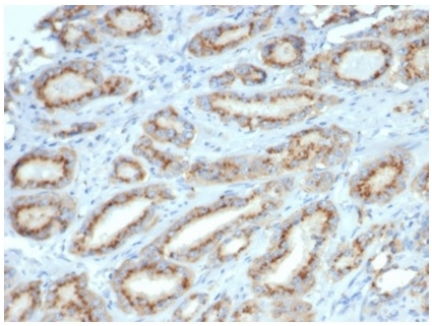
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

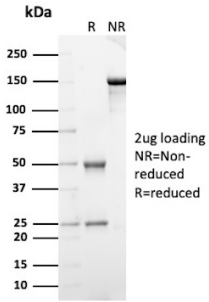
Clone	OSP/4589
Gene Name	SPP1
Immunogen	Recombinant full-length rat Spp1 protein
Host	Rat
Clonality	Monoclonal
Isotype / Light Chain	IgG1
Mol. Weight of Antigen	34.9kDa
Cellular Localization	Secreted
Species Reactivity	Dog, Human, Mink, Mouse, Rabbit, Rat, Turkey
Positive Control	Bone. Found in plasma.

**Optimal dilution for a specific application should be determined.*

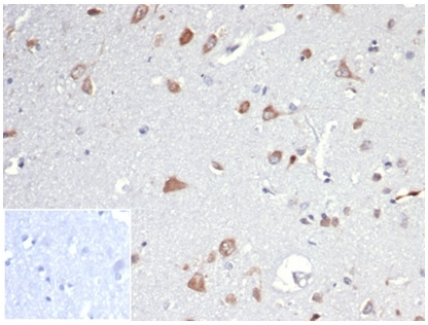
Product Images for Osteopontin (OSP) / Secreted Phosphoprotein 1 (SPP1) Antibody



IHC analysis of formalin-fixed, paraffin-embedded human prostate stained by Osteopontin Rat Monoclonal Antibody (OSP/4589) at 2ug/ml in PBS. HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



SDS-PAGE Analysis of Purified Osteopontin Rat Monoclonal Antibody (OSP/4589). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human brain stained with Osteopontin Rat Monoclonal Antibody (OSP/4589). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Osteopontin is a bone matrix protein and a cytokine secreted by activated T cells. Osteopontin (OPN, also designated bone sialoprotein 1, urinary stone protein, spp-1, -1, nephropontin, uropontin) is an extracellular matrix cell adhesion phosphoglycoprotein. OPN is deposited into unmineralized matrix prior to calcification leading to localization at various tissue interfaces including cement lines, lamina limitans, and between collagen fibrils of fully matured hard tissues. While OPN is a major product of osteoblasts, it is also synthesized by brain and kidney cells. OPNs isolated from or secreted by various tissues have molecular weights due to post-translational modifications. OPN functions as a substrate for transglutaminase and is involved in cell adhesion, chemoattraction and immunomodulation.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Complement System, Mesenchymal Stem Cell Differentiation, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.