

Rabbit anti-Human Osteopontin Polyclonal Antibody | anti-Spp1 antibody

Anti-Osteopontin Antibody, Rabbit Polyclonal

CATALOG # AAA256970	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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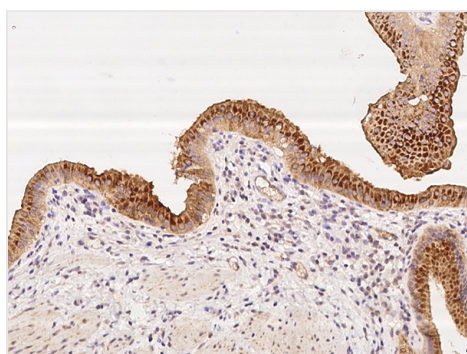
PRODUCT SYNONYMS

Osteopontin; Polyclonal Antibody; Anti-Osteopontin Antibody; Rabbit Polyclonal; Osteopontin/SPP1 Antibody; Rabbit PAb; Antigen Affinity Purified; secreted phosphoprotein 1; Anti-BNSP Antibody; Anti-BSPI Antibody; Anti-ETA-1 Antibody; Anti-OPN Antibody; anti-Spp1 antibody

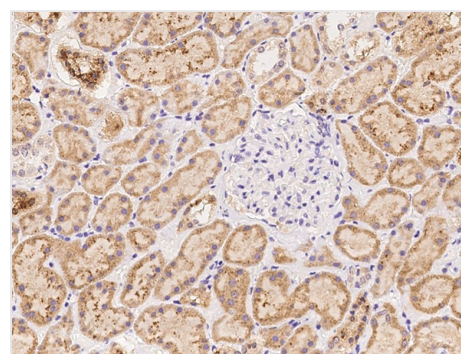
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Osteopontin/SPP1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-Spp1 antibody	IHC (Immunohistochemistry)
Immunogen	E Coli-derived Human Osteopontin/SPP1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human Osteopontin/SPP1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES


IHC (Immunohistochemistry)

Immunochemical staining of human Osteopontin in human gallbladder with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.


IHC (Immunohistochemistry)

Immunochemical staining of human Osteopontin in human kidney with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-Spp1 antibody	Osteopontin, also known as Secreted phosphoprotein 1, Bone sialoprotein 1, BSP-1, OPN, and SPP1, is a member of the osteopontin family and a SIBLING glycoprotein. Osteopontin has been classified as T-helper 1 cytokine and thus believed to exacerbate inflammation in several chronic inflammatory diseases, including atherosclerosis. Besides proinflammatory functions, physiologically Osteopontin is a potent inhibitor of mineralization, it prevents ectopic calcium deposits and is a potent inducible inhibitor of vascular calcification. Osteopontin is expressed and secreted by various cells, and has a role in cell adhesion, chemotaxis, prevention of apoptosis, invasion, migration and anchorage-independent growth of tumor cells. Osteopontin recruitment functions of inflammatory cells are thought to be mediated through its adhesive domains, especially the arginine-glycine-aspartate (RGD) sequence that interacts with several integrin heterodimers. Osteopontin has emerged as a potential biomarker and mediator in cardiovascular disease. In the context of atherosclerosis, OPN is generally regarded as a proinflammatory and proatherogenic molecule. However, the role of OPN in vascular calcification (VC), which is closely related to chronic and active inflammation, is that of a negative regulator because it is an inhibitor of calcification and an active inducer of decalcification. Extensive research has demonstrated the pivotal participation of Osteopontin in the regulation of cell signaling which controls neoplastic and malignant transformation. The elevated expression of Osteopontin has been observed in a variety of cancers. It has been linked with tumor metastasis and signifies a poor prognosis for the patient.
References	Scatena M, et al. (2007) Osteopontin: a multifunctional molecule regulating chronic inflammation and vascular disease. <i>Arterioscler Thromb Vasc Biol.</i> 27(11): 2302-9. Johnston NI, et al. (2008) Osteopontin as a target for cancer therapy. <i>Front Biosci.</i> 13: 4361-72. Cho HJ, et al. (2009) Osteopontin: a multifunctional protein at the crossroads of inflammation, atherosclerosis, and vascular calcification. <i>Curr Atheroscler Rep.</i> 11(3): 206-13. Waller AH, et al. (2010) Osteopontin in cardiovascular disease: a potential therapeutic target. <i>Cardiol Rev.</i> 18(3): 125-31. Shevde LA, et al. (2010) Osteopontin: an effector and an effect of tumor metastasis. <i>Curr Mol Med.</i> 10(1): 71-81.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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