

Mouse Osteopontin Monoclonal Antibody | anti-SPP1 antibody

Osteopontin (N-terminal region) Antibody

CATALOG # AAA71677	HOST Mouse	REACTIVITY Human, Rat, Mouse	APPLICATIONS Immunocytochemistry, ELISA, Western Blot
------------------------------	----------------------	--	---

PRODUCT SYNONYMS

Osteopontin; Monoclonal Antibody; Osteopontin (N-terminal region) Antibody; Osteopontin (N-terminal region); anti-SPP1 antibody

PRODUCT SPECIFICATIONS

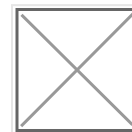
Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M574
Specificity	Clone M574 was purified using Protein G chromatography. The antibody detects a 60kDa* protein corresponding to the molecular mass of Osteopontin on SDS-PAGE immunoblots of human MDA-MB-231 cells and human full length recombinant Osteopontin protein.
Form/Format	Mouse monoclonal antibody purified with protein A chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-SPP1 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone M574 was generated from a recombinant protein containing amino acid residues in the N-terminal region of human osteopontin. This sequence has high homology with rat and mouse osteopontin.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of Osteopontin in paraformaldehyde fixed and NP-40 permeabilized MCF-7 cells. The cells were labeled with mouse monoclonal anti-Osteopontin (M574). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)

Western blot analysis of human recombinant osteopontin protein (lane 1 & 2) or human MDA-MB-231 cells (lane 3 & 4). The blots were probed with mouse monoclonal anti-Osteopontin (OM5741) at a dilution of 1:1000 (lane 1), 1:4000 (lane 2), 1:250 (lane 3), and 1:1000 (lane 4).

ADDITIONAL INFORMATION

Related Product Information for anti-SPP1 antibody

Osteopontin (OPN) is a 34kDa sialic acid rich member of small integrin-binding ligand N-linked glycoproteins. It is expressed in many different tissues and is post-translationally modified at multiple sites with both glycosylation and phosphorylation. The mature post-translationally modified protein is 60kDa. OPN is involved with cell survival, proliferation, invasion, and stem like behavior. OPN can interact with CD44, bind hydroxyapatite, and activates many integrins. These interactions are important for OPN function in cell matrix formation. A higher presence of OPN has been found in a variety of cancers, leading to increased tumor growth and metastasis. In addition, OPN is involved in type I immunity through its function as a cytokine where it can enhance production of interferon-gamma and interleukin-12 and reduce production of interleukin-10.

References	Shevde, L. et al. (2014) Matrix Biology 37:131 Sodek, J. et al. (2000) Crit Rev Oral Biol Med. 11(3):279
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	4759166
NCBI GeneID	6696
NCBI Accession #	NP_000573.1
NCBI GenBank Nucleotide #	NM_000582.2
UniProt Accession #	P10451; Q15681; Q15682; Q15683; Q4W597; Q567T5; Q8NBK2; Q96IZ1; B2RDA1
Molecular Weight	35,423 Da
NCBI Official Full Name	osteopontin isoform OPN-b
NCBI Official Synonym Full Names	secreted phosphoprotein 1
NCBI Official Symbol	SPP1
NCBI Official Synonym Symbols	OPN; BNSP; BSPI; ETA-1
NCBI Protein Information	osteopontin; uropontin; nephropontin; SPP1/CALPHA1 fusion; urinary stone protein; early T-lymphocyte activation 1; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I,
UniProt Protein Name	Osteopontin
UniProt Gene Name	SPP1
UniProt Synonym Gene Names	BNSP; OPN; SPP-1
UniProt Entry Name	OSTP_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/osteopontin-antibody-clone-m574-immunocytochemistry-western-blot-elisa/71677>