

Mouse anti-Human Osteopontin Monoclonal Antibody | anti-SPP1 antibody

Osteopontin monoclonal antibody (53)

CATALOG # AAA76990	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
------------------------------	----------------------	----------------------------	--

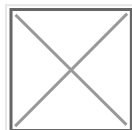
PRODUCT SYNONYMS

Osteopontin; Monoclonal Antibody; Osteopontin monoclonal antibody (53); OPN; SPP1; Secreted phosphoprotein 1; Bone sialoprotein 1; anti-SPP1 antibody

PRODUCT SPECIFICATIONS

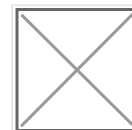
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	53
Specificity	Recognizes human Osteopontin.
Purity/Purification	Protein G affinity purified.
Form/Format	Liquid. In PBS containing 0.1% sodium azide.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	314
Applicable Applications for anti-SPP1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant human Osteopontin.
Source	Purified from ascites
Country of Origin	US
Preparation and Storage	Long term storage: -20 degree C Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry analysis of formalin-fixed, paraffin-embedded breast cancer tissue stained with 2ug/ml anti-OPN 53.



SDS-PAGE

SDS-PAGE analysis of AAA76990: Lane 1: MW Marker, Lane 2 and Lane 3: 2ug of Osteopontin monoclonal antibody (53), resolved under reduced and non-reduced condition.



WB (Western Blot)

Western blot analysis: Protein samples were resolved by SDS-PAGE on a 8-16% gradient gel, transferred to nitrocellulose, and blocked for 2 hrs in Tris-buffered saline containing 0.05% Tween 20 (TBS- T) and 5% milk powder. For immunodetection, Blots were incubated with anti-OPN 53 (5ug/ml) overnight at 4°C, followed by incubation with a HRP-conjugated goat anti-mouse secondary antibody (in TBS-T) for 1 hr at room temperature. Protein bands were visualized by enhanced chemiluminescence on Kodak X-OMAT film. M= Magic Mark.

ADDITIONAL INFORMATION

Related Product Information for anti-SPP1 antibody	Osteopontin (OPN) is an acidic extracellular matrix cell adhesion protein that is relatively abundant not only in bone matrix, plasma, urine, and milk, but is also found in malignant and atherogenic tissues. Phosphorylation, glycosylation and calcium modifications allow intact and fragmented Osteopontin to direct a variety of diverse responses including tissue remodeling, inflammation and cell survival. Plasma Osteopontin has been shown to provide prognostic information in breast, prostate, colon, and lung cancers as well as metastatic carcinomas. The notable presence of Osteopontin in a variety of tumors is strongly correlated to pathological stage, suggesting its critical role in tumor invasiveness, progression and metastasis. In addition, Osteopontin inhibits inducible nitric oxide synthase activity, thereby protecting tumor cells from NO-mediated macrophage cytotoxic attack. Osteopontin is found in atherosclerotic plaques and may drive a number of diabetic vascular pathologies.
Product Categories/Family for anti-SPP1 antibody	Cell Organelles & Structures

NCBI AND UNIPROT INFORMATION

NCBI GI #	129260
NCBI GeneID	6696
UniProt Accession #	P10451 ; Q15681 ; Q15682 ; Q15683 ; Q4W597 ; Q567T5 ; Q8NBK2 ; Q96IZ1 ; B2RDA1
NCBI Official Full Name	Osteopontin
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
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-53-western-blot-immunohistochemistry-elisa/76990>