

Product datasheet for **TA326641**

Osteopontin (SPP1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	SPP1 antibody can be used for detection of SPP1 by Western blot at 1 - 2 µg/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	SPP1 antibody was raised against an 18 amino acid peptide near the amino terminus of human SPP1.
Specificity:	SPP1 antibody is human, mouse and rat reactive. Multiple isoforms of SPP1 are known to exist.
Formulation:	SPP1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	SPP1 Antibody is Protein A purified.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 36 kDa; Observed: 37 kDa
Gene Name:	secreted phosphoprotein 1
Database Link:	NP_001238759 Entrez Gene 6696 Human P10451



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Background:

SPP1 Antibody: The secreted protein 1 (SPP1), also known as osteopontin, is a major noncollagenous protein of bone, but is also found in the extracellular matrix of other mineralized tissues and in bodily fluids. In bone, SPP1 is produced by osteoblasts, osteocytes, macrophages, and osteoclasts (1,2). SPP1 binds to cells through integrin and non-integrin receptors, as well as the adhesion receptor CD44 in an RGD-independent manner, enabling SPP1 to induce a number of functional effects including macrophage chemotaxis, cytoprotection, and regulation of T helper type 1 cells (2). SPP1 can regulate biomineralization by inhibiting the formation of hydroxyapatite (3) and the growth of calcium oxalate crystals (4).

Synonyms:

BNSP; BSPI; ETA-1; OPN