

OPN Polyclonal Antibody

Catalog No :	YT3467
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	OPN
Fields :	>>PI3K-Akt signaling pathway;>>Apelin signaling pathway;>>Focal adhesion;>>ECM-receptor interaction;>>Toll-like receptor signaling pathway;>>GnRH secretion;>>Human papillomavirus infection
Gene Name :	SPP1
Protein Name :	Osteopontin
Human Gene Id :	6696
Human Swiss Prot No :	P10451
Mouse Gene Id :	20750
Mouse Swiss Prot No :	P10923
Rat Gene Id :	25353
Rat Swiss Prot No :	P08721
Immunogen :	The antiserum was produced against synthesized peptide derived from human Osteopontin. AA range:261-310
Specificity :	OPN Polyclonal Antibody detects endogenous levels of OPN protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:100-500;IF ICC 1:100-500;ELISA 1:5000-20000

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	60kD
Cell Pathway :	Focal adhesion;ECM-receptor interaction;Toll_Like;
Background :	secreted phosphoprotein 1(SPP1) Homo sapiens The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011],
Function :	disease:This protein plays a principal role in urinary stone formation as the stone matrix.,function:Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity.,function:Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction.,online information:Osteopontin entry,PTM:Extensively phosphorylated on clustered serine residues.,PTM:N- and O-glycosylated.,similarity:Belongs to the osteopontin family.,subunit:Ligand for integrin alpha-V/beta-3.,
Subcellular Location :	Secreted.
Expression :	Bone. Found in plasma.

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