

Anti-Osteopontin Rat mAb



GB120018 -20°C

Product Information

Protein full name	Osteopontin
Synonyms	Bone sialoprotein 1, Nephropontin, Secreted phosphoprotein 1, SPP-1, Urinary stone protein, Uropontin, SPP1, BNSP, OPN, PSEC0156, BSPI, ETA-1, Osteopontin
Immunogen	KLH conjugated Synthetic peptide corresponding to Mouse Osteopontin
Uniprot ID	P10923
Isotype	IgG1
Clone Number	3H1D12
Purity	Affinity purification
Subcellular location	Secreted
Predicted MW./Observed MW.	32 kDa / 44-75 kDa

Applications	Species	Dilution	Positive Tissue
WB	Human, Mouse	1: 500-1: 1000	A549, RAW264.7, kidney
IHC/IF	Mouse, Rat	1: 300-1: 600	bone

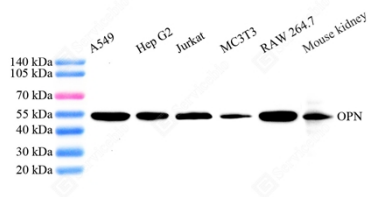
Storage

Storage	Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Storage Buffer	PBS with 0.15% ProClin300, 100 µg/mL BSA and 50% glycerol.

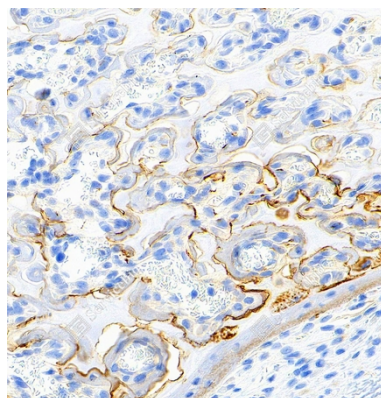
background

Osteopontin (OPN), also known as bone sialoprotein I (BSP-1 or BNSP), early T-lymphocyte activation (ETA-1), secreted phosphoprotein 1 (SPP1), 2ar and Rickettsia resistance (Ric), is a protein that in humans is encoded by the SPP1 gene (secreted phosphoprotein 1). Osteopontin is the principal phosphorylated glycoprotein of bone and is expressed in a limited number of other tissues including dentine. Osteopontin is produced by osteoblasts under stimulation by calcitriol and binds tightly to hydroxyapatite.

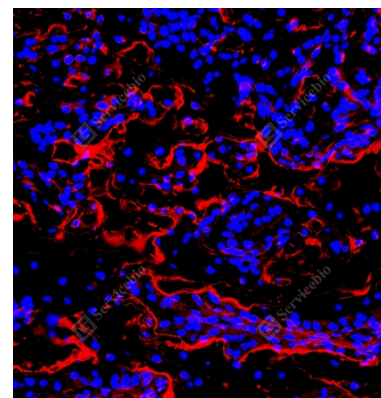
Images



WB analysis of Osteopontin(GB120018).
Sample: Protein treated by RIPA Lysis Buffer (G2002).
Blocking buffer: 3% Nonfat dry milk (GC310001) in TBST, RT, 1h.
Primary antibody: 1: 1000, 4°C overnight.
Secondary antibody: HRP conjugated Goat Anti-Rat IgG (H+L) (GB23302), 1: 5000, RT, 1h.



IHC analysis of Osteopontin(GB120018).
Sample: Mouse bone, 4% PFA (G1101) 12-24h.
Antigen retrieval: Citrate buffer (pH 6.0) (G1201), 98°C, 20 min.
Primary antibody: 1: 500, 4°C overnight.
Secondary antibody: HRP conjugated Goat Anti-Rat IgG (H+L) (GB23302), 1: 200, RT, 1h.



IF analysis of Osteopontin(GB120018)red.
Sample: Rat bone, 4% PFA (G1101) 12-24h.
Antigen retrieval: Citrate buffer (pH 6.0) (G1201), 98°C, 20 min.
Blocking buffer: 3% BSA (GC305010) in PBS, RT, 30min.
Primary antibody: 1: 500, 4°C overnight.
Secondary antibody: Cy3 conjugated Goat Anti-Rat IgG (H+L) (GB21302), 1: 300, RT, 1h.

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