

Anti-Osteopontin Mouse mAb



GB122328 -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	Recombinant protein corresponding to Rat Osteopontin
Uniprot ID	P08721
Isotype	IgG1, κ
Clone Number	5C5A7
Purity	Affinity purification
Subcellular location	Secreted

Applications	Species	Dilution	Positive Tissue
IHC/IF	Rat	1: 700-1: 2100	bone, femur

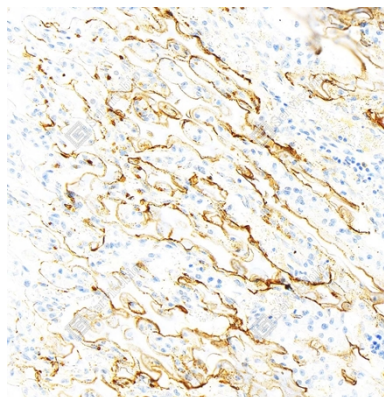
Storage

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.

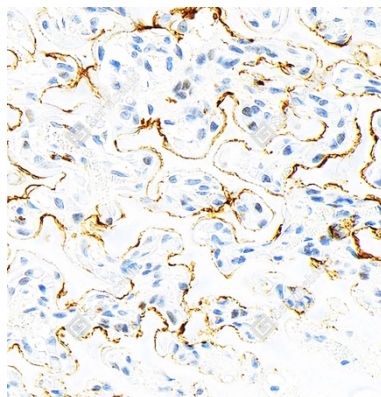
background

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.

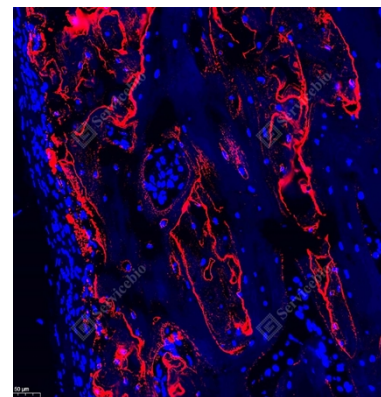
Images



IHC analysis of Osteopontin(GB122328).
Sample: Rat bone, 4% PFA (G1101) 12-24h.
Antigen retrieval: Citrate buffer (pH 6.0) (G1201), pressure cooker 2 min.
Primary antibody: 1: 700, 4°C overnight.
Secondary antibody: S-vision poly-HRP conjugated Goat Anti-Mouse IgG (H+L), Ready to use(G1301), RT, 20min.



IHC analysis of Osteopontin(GB122328).
Sample: Rat femur, 4% PFA (G1101) 12-24h.
Antigen retrieval: Citrate buffer (pH 6.0) (G1201), pressure cooker 2 min.
Primary antibody: 1: 700, 4°C overnight.
Secondary antibody: S-vision poly-HRP conjugated Goat Anti-Mouse IgG (H+L), Ready to use(G1301), RT, 20min.



IF analysis of Osteopontin(GB122328)red.
Sample: Rat bone, 4% PFA (G1101) 12-24h.
Antigen retrieval: Citrate buffer (pH 6.0) (G1201), pressure cooker 2 min.
Blocking buffer: 3% BSA (GC305010) in PBS, RT, 30min.
Primary antibody: 1: 700, 4°C overnight.
Secondary antibody: Cy3 conjugated Goat Anti-Mouse IgG (H+L) (GB21301), 1: 300, RT, 1h.

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