

# Anti-Osteopontin Mouse mAb



**GB122328 -20°C**

## Product Information

|                             |                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein full name</b>    | Osteopontin                                                                                                                                                |
| <b>Synonyms</b>             | Bone sialoprotein 1, Nephropontin, Secreted phosphoprotein 1, SPP-1, Urinary stone protein, Uropontin, SPP1, BNSP, OPN, PSEC0156, BSPI, ETA-1, Osteopontin |
| <b>Immunogen</b>            | Recombinant protein corresponding to Rat Osteopontin                                                                                                       |
| <b>Uniprot ID</b>           | P08721                                                                                                                                                     |
| <b>Isotype</b>              | IgG1, κ                                                                                                                                                    |
| <b>Clone Number</b>         | 5C5A7                                                                                                                                                      |
| <b>Purity</b>               | Affinity purification                                                                                                                                      |
| <b>Subcellular location</b> | Secreted                                                                                                                                                   |

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

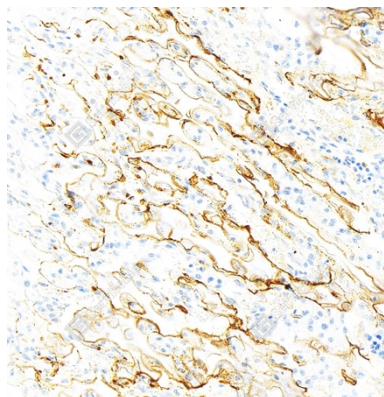
## Storage

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

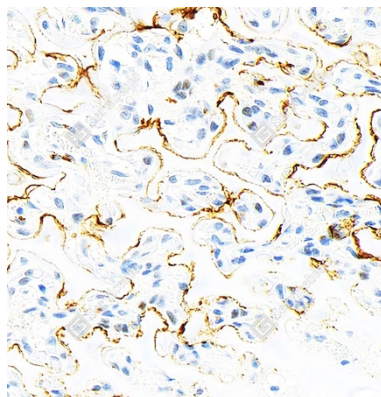
## background

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.

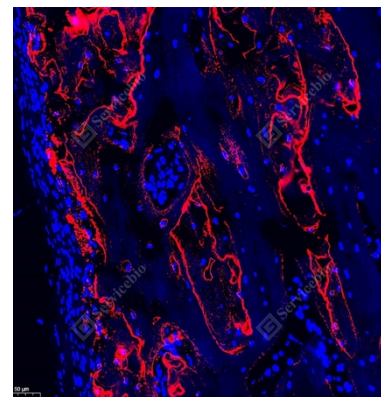
## Images



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.

**For Research Use Only!**

**Ver. No.: V2.0-20260420**