

## Osteoprotegerin monoclonal antibody

Catalog: MB9396

Host: Mouse

Reactivity: Human, Mouse, Rat

### Background:

Bone morphogenesis and remodeling involve the formation of bone from osteoblasts and the resorption of bone by osteoclasts. The cytokine osteoprotegerin (OPG), also designated osteoclastogenesis inhibitory factor (OCIF), is known to inhibit osteoclast formation. A secreted glycoprotein, OPG is a member of the TNF receptor family that increases bone density and volume. OPG is thought to inhibit osteoclastogenesis by disrupting the cell-to-cell signaling between osteoblastic stromal cells and osteoclast progenitors. OPG is known to bind to TRAIL, a death domain-containing protein, and to inhibit TRAIL apoptosis in Jurkat cells. OPG also binds to osteoclast differentiation factor (ODF), also known as TRANCE/RANKL, a membrane-bound protein belonging to the TNF ligand family. Both TNF $\alpha$  and TNF $\beta$  up-regulate OPG expression, while the bone resorbing agent prostaglandin E2 downregulates OPG.

### Product:

Mouse IgG1, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

46 kDa

### Swiss-Prot:

O00300(Human) O08712(Mouse) O08727(Rat)

### Purification&Purity:

ProG purified.

### Applications:

WB:1:500-1:1,000

ICC:1:50-1:200

IHC:1:50-1:200

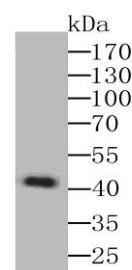
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.

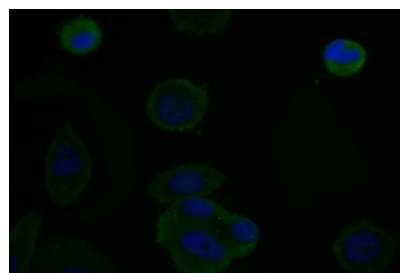
### Specificity:

Osteoprotegerin monoclonal antibody detects endogenous levels of Osteoprotegerin protein.

### DATA:



Western blot analysis of Osteoprotegerin on K562 cell lysate using anti-Osteoprotegerin antibody at 1/1000 dilution.



ICC staining Osteoprotegerin in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

### Note:

For research use only, not for use in diagnostic procedure.

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