

## Product datasheet for **DM2005**

### Osteoprotegerin (TNFRSF11B) Mouse Monoclonal Antibody [Clone ID: OPG-13]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OPG-13
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western Blot.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic OPG peptide that comprises AA21 to AA39 homologous with human osteoprotegerin (N-terminal C has been added to the peptide)
Specificity:	The Anti Human Osteoprotegerin, Clone: OPG-13 is a mouse monoclonal antibody against synthetic peptide of Human Osteoprotegerin.
Formulation:	0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2. AZIDE FREE State: Aff - Purified State: Lyophilized purified IgG
Reconstitution Method:	Restore with 0.1 ml of deionized water
Concentration:	lot specific
Purification:	Affinity chromatography on protein G
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and in aliquots at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after two weeks at 4°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor necrosis factor receptor superfamily member 11b
Database Link:	<a href="#">Entrez Gene 4982 Human</a> <a href="#">O00300</a>



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**Background:**

Osteoprotegerin (OPG) or osteoclastogenesis inhibitory factor (OCIF) is a secretory glycoprotein belonging to TNF receptor superfamily. OPG consists of 401 amino acid residues, it has a molecular weight of 60 kDa as a monomer and 120 kDa as a disulfide-linked dimer and is produced in different tissues, e.g. bone, skin, liver, stomach, intestine and lung. Osteoprotegerin inhibits the recruitment, proliferation and activation of osteoclasts. Osteoclast formation activity may be monitored principally by determination of concentration ratio of osteoprotegerin ligand (OPGL)/OPG. Alteration of this ratio may be the cause of bone loss in many imbalances in bone metabolism such as osteoporosis, osteopetrosis, hypercalcemia, metastatic osteolytic lesions and rheumatic bone degradation.

**Synonyms:**

OPG, OCIF