

Product datasheet for **DM2018**

Osteoprotegerin (TNFRSF11B) Mouse Monoclonal Antibody [Clone ID: OPG-01]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OPG-01
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western Blot.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human Osteoprotegerin (OPG Fc Chimera) produced in E. coli.
Specificity:	The antibody recognizes human Osteoprotegerin. Other species not tested.
Formulation:	0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2 State: Aff - Purified State: Sterile filtered, lyophilized from 1 mg/ml solution
Reconstitution Method:	Restore with 0.1 ml of deionized water. Let the pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.
Concentration:	lot specific
Purification:	Affinity chromatography on protein G
Conjugation:	Unconjugated
Storage:	Store lyophilized antibody at -20°C. Following reconstitution the antibody can be stored at 2-8°C for up to two weeks. For longer storage aliquot and store frozen at -20°C to -80°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor necrosis factor receptor superfamily member 11b
Database Link:	Entrez Gene 4982 Human O00300



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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