

Product datasheet for TA336370

Osteoprotegerin (TNFRSF11B) Mouse Monoclonal Antibody [Clone ID: 98A1071]

Product data:

Product Type:	Primary Antibodies
Clone Name:	98A1071
Applications:	FC, IHC, WB
Recommend Dilution:	WB: 1 ug/ml, IF: 1:10-1:500, IHC: 1:10-1:500, IHC-F: 1:10-1:500, IHC-P: 1:10-1:500, IP: 1:10-1:500
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	A peptide corresponding to the amino acids 20-37 TQETFPKYLHYDEETSH of human Osteoprotegerin was used as immunogen for this antibody.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	0.5 mg/ml
Purification:	Protein G purified
Gene Name:	tumor necrosis factor receptor superfamily member 11b
Database Link:	NP_002537 Entrez Gene 4982 Human
Background:	Osteoprotegerin (OPG) is a secretory glycoprotein belonging to TNF receptor (TNFR) superfamily. As the name implies, it protects bone. Unlike other TNFRs it lacks a transmembrane domain and lacks any apparent cell associated signals. OPG consists of 401 amino acid with molecular mass of approximately 55 kD as a monomer and 110 kD as a disulfide-linked dimer. High levels of OPG mRNA has been detected in lung, heart, kidney, and placenta ¹ . Recombinant OPG blocks osteoclastogenesis in vitro and increases bone density in vivo. Targeted deletion of OPG in mice results in severe early-onset of osteoporosity. These mice also exhibit increase in vascular calcification in the aorta and renal arteries suggesting that it may also play a role in degenerative arterial disease.
Synonyms:	OCIF; OPG; TR1



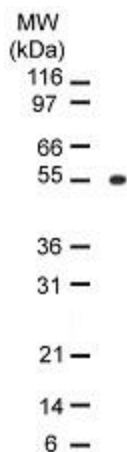
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Note: This antibody is useful in Flow Cytometry: 0.2-1 ug/10⁶ cells
Immunocytochemistry/Immunofluorescence: see Sandra 2006 Immunohistochemistry (frozen); see Boumans 2012 for details. Immunoprecipitation: see Sandra 2006

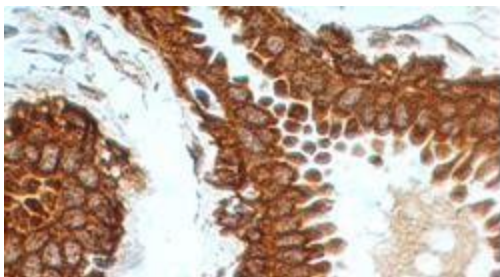
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction

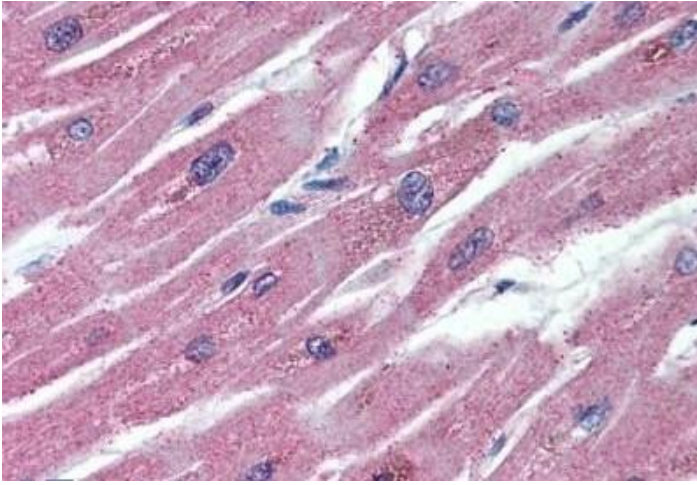
Product images:



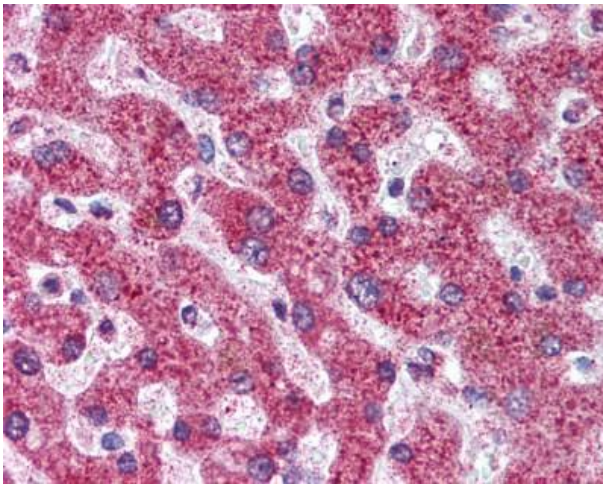
Western Blot: Osteoprotegerin Antibody (98A1071) TA336370 - analysis of Daudi lysate using the OPG antibody at 1 ug/ml.



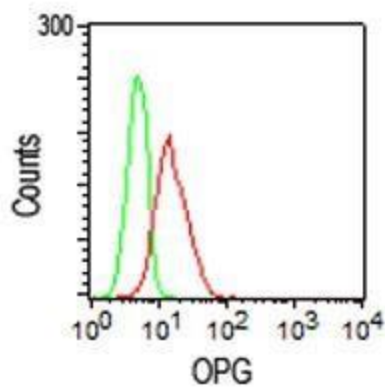
Immunohistochemistry-Paraffin: Osteoprotegerin Antibody (98A1071) TA336370 - Formalin-fixed, paraffin-embedded normal human breast tissue stained with OPG antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen.



Immunohistochemistry-Paraffin: Osteoprotegerin Antibody (98A1071) TA336370 - Staining of human heart. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



Immunohistochemistry-Paraffin: Osteoprotegerin Antibody (98A1071) TA336370 - Staining of human liver. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



Flow Cytometry: Osteoprotegerin Antibody (98A1071) TA336370 - Intracellular staining of 10^6 HeLa cells using 0.2 ug of OPG antibody, 0.5 ul of PE secondary