

Osteoprotegerin / OPG Antibody (aa20-37, clone 98A1071)
Mouse Monoclonal Antibody
Catalog # ALS12119**Specification**

Osteoprotegerin / OPG Antibody (aa20-37, clone 98A1071) - Product Information

Application	IHC
Primary Accession	O00300
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	46kDa KDa

Osteoprotegerin / OPG Antibody (aa20-37, clone 98A1071) - Additional Information**Gene ID** 4982**Other Names**

Tumor necrosis factor receptor superfamily member 11B, Osteoclastogenesis inhibitory factor, Osteoprotegerin, TNFRSF11B, OCIF, OPG

Target/Specificity

A peptide corresponding to the amino acids 20-37 TQETFPPKYLHYDEETSH of human OPG was used to immunize mice. The specificity was tested on recombinant OPG by western blot analysis.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

Osteoprotegerin / OPG Antibody (aa20-37, clone 98A1071) is for research use only and not for use in diagnostic or therapeutic procedures.

Osteoprotegerin / OPG Antibody (aa20-37, clone 98A1071) - Protein Information**Name** TNFRSF11B**Synonyms** OCIF, OPG**Function**

Acts as a decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. Inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. May also play a role in preventing arterial calcification. May act as decoy receptor for TNFSF10/TRAIL and protect against apoptosis. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis.

Cellular Location

Secreted.

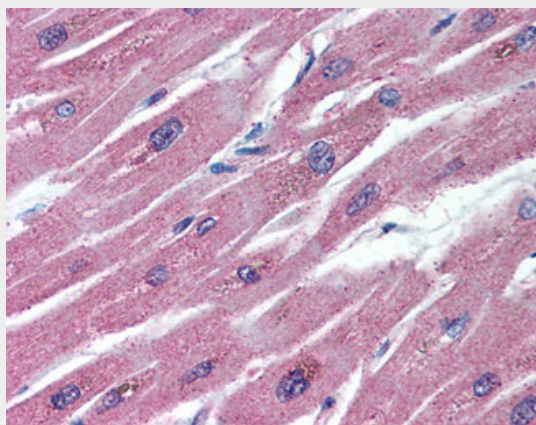
Tissue Location

Highly expressed in adult lung, heart, kidney, liver, spleen, thymus, prostate, ovary, small intestine, thyroid, lymph node, trachea, adrenal gland, testis, and bone marrow. Detected at very low levels in brain, placenta and skeletal muscle. Highly expressed in fetal kidney, liver and lung

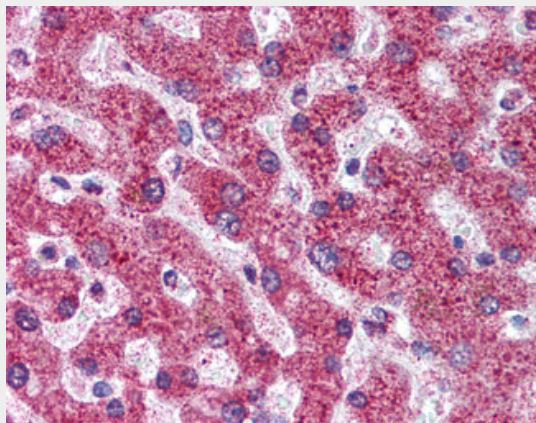
Osteoprotegerin / OPG Antibody (aa20-37, clone 98A1071) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Osteoprotegerin / OPG Antibody (aa20-37, clone 98A1071) - Images

Anti-Osteoprotegerin antibody IHC of human heart.



Anti-Osteoprotegerin antibody IHC of human liver.

Osteoprotegerin / OPG Antibody (aa20-37, clone 98A1071) - Background

Acts as decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in

osteoclastogenesis. Inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. May also play a role in preventing arterial calcification. May act as decoy receptor for TNFSF10/TRAIL and protect against apoptosis. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis.

Osteoprotegerin / OPG Antibody (aa20-37, clone 98A1071) - References

Simonet W.S.,et al.Cell 89:309-319(1997).
Yasuda H.,et al.Endocrinology 139:1329-1337(1998).
Morinaga T.,et al.Eur. J. Biochem. 254:685-691(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.