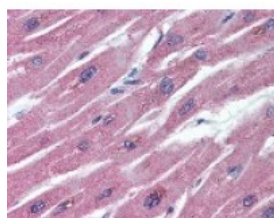


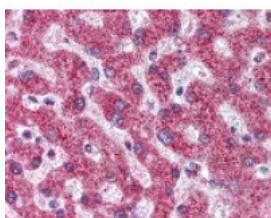


## TNFRSF11B Antibody [98A1071]

CATALOG NUMBER: 49-329



Immunohistochemistry staining of TNFRSF11B in heart formlin-fixed paraffin-embedded tissue using TNFRSF11B monoclonal Antibody.



Immunohistochemistry staining of TNFRSF11B in liver formlin-fixed paraffin-embedded tissue using TNFRSF11B monoclonal Antibody.

### Specifications

<b>SPECIES REACTIVITY:</b>	Gibbon, Human
<b>TESTED APPLICATIONS:</b>	IHC, WB
<b>APPLICATIONS:</b>	TNFRSF11B antibody can be used in ELISA, Western Blot starting at 1:500 - 1:1000, and immunohistochemistry starting at 5 ug/mL.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>SPECIFICITY:</b>	The Osteoprotegerin antibody, clone 98A1071, detects all forms of Osteoprotegerin including monomeric, dimeric and Osteoprotegerin bound to RANKL (Vandooren, 2008) as well as Osteoprotegerin bound to TRAIL (Sandra, 2006).
<b>IMMUNOGEN:</b>	A peptide corresponding to the amino acids 20-37 TQETFPKYLHYDEETSH of human OPG. The specificity was tested on recombinant OPG by western blot analysis. Percent identity by BLAST analysis: Human, Gibbon (100%); Monkey (94%); Marmoset, Panda, Dog, Ho ...
<b>HOST SPECIES:</b>	Mouse

### Properties

<b>PURIFICATION:</b>	Protein G Column
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	PBS, 0.2% gelatin, 0.05% sodium azide.
<b>STORAGE CONDITIONS:</b>	TNFRSF11B antibody should be stored long term (months) at -20 °C and short term (weeks) at 4 °C. As with all antibodies avoid freeze/thaw cycles.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	IgG
<b>CONJUGATE:</b>	Unconjugated

### Additional Info

<b>ALTERNATE NAMES:</b>	TNFRSF11B, OCIF, OPG, Osteoprotegerin, TR1
<b>ACCESSION NO.:</b>	O00300

PROTEIN GI NO.:	322510101
OFFICIAL SYMBOL:	TNFRSF11B
GENE ID:	4982

### Background

**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<sup>1</sup>. 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.

FOR RESEARCH USE ONLY

December 13, 2016