

Active Human Osteoprotegrin Reference Standard

Cat. No. TNFRSF11B-20H **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	Mammalian Cells
Description	Osteoprotegerin acts as decoy receptor for rankl and thereby neutralizes its function in osteoclastogenesis. OPG inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local rankl/opg ratio. Osteoprotegerin may also play a role in preventing arterial calcification. May act as decoy receptor for trail and protect against apoptosis. Trail binding blocks the inhibition of osteoclastogenesis.
Form	Liquid
Bio-activity	The level of Osteoprotegrin in the serum was quantified using ELISA.
Usage	For research use only, not for diagnostic or therapeutic use.
Quality Control Test	Generated from a human serum pool. This lot has been tested by standard laboratory procedures and found to be negative for HIV 1, HIV 2, Hepatitis B and Hepatitis C.
Storage	Stored at -20 °C, 4 °C for less than seven days, frozen for greater than seven days.
Concentration	13.19 ng/ml
Preservative	0.1% sodium azide

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GENE INFORMATION

Gene Name	TNFRSF11B tumor necrosis factor receptor superfamily, member 11b [Homo sapiens]
Official Symbol	TNFRSF11B
Synonyms	TNFRSF11B; tumor necrosis factor receptor superfamily, member 11b; OPG, osteoprotegerin; tumor necrosis factor receptor superfamily member 11B; OCIF; TR1; osteoprotegerin; osteoclastogenesis inhibitory factor; OPG; MGC29565;
Gene ID	4982
mRNA Refseq	NM_002546
Protein Refseq	NP_002537
MIM	602643
UniProt ID	O00300
Chromosome Location	8q24
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Monoamine Transport, organism-specific biosystem; Osteoblast Signaling, organism-specific biosystem; Osteoclast Signaling, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem;
Function	binding; cytokine activity; receptor activity;

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