

Human OPG (TNFRSF11B)/Osteoprotegerin ELISA Kit | OPG elisa kit

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CATALOG #
AAA11548

REACTIVITY
Human

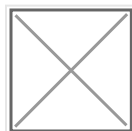
PRODUCT SYNONYMS

OPG (TNFRSF11B)/Osteoprotegerin; Human OPG (TNFRSF11B)/Osteoprotegerin ELISA Kit; Tumor necrosis factor receptor superfamily member 11B; tumor necrosis factor receptor superfamily; member 11b; MGC29565; MGC93568; OCIF; OPG; Osteoclastogenesis inhibitory factor; Osteoprotegerin; TNFRSF 11B; TNFRSF11B; TR 1; TR1; TR11B_HUMAN; OPG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human TNFRSF11B
Sequence Length	401
Samples	Cell culture supernatants, serum, plasma (heparin, EDTA), saliva and urine
Detection Range	93.7 pg/ml - 6,000 pg/ml
Sensitivity	<5 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OPG elisa kit	Background: Osteoprotegerin (OPG) is identical to osteoclastogenesis inhibitory factor (OCIF), a soluble member of the tumor-necrosis factor receptor family that inhibits osteoclastogenesis. OPG is considered to play an important role in the regulation of bone resorption by modifying osteoclast differentiation. Osteoprotegerin is an independent risk factor for the progression of atherosclerosis and onset of cardiovascular disease. It can act as a soluble factor in the regulation of bone mass and imply a utility for OPG in the treatment of osteoporosis associated with increased osteoclast activity. OPG system may play a critical role in the development of osteolytic bone disease in multiple myeloma and that targeting this system may have therapeutic potential. OPG also plays a role in the vascular system. The standard product used in this kit is recombinant OPG, a 55KDa glycoprotein. Principle of the Assay: The Picokine™ Human TNFRSF11B Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human TNFRSF11B with a 96-well strip plate that is pre-coated with antibody specific for TNFRSF11B. The detection antibody is a biotinylated antibody specific for TNFRSF11B. The capture antibody is polyclonal antibody from goat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human TNFRSF11B with immunogen: Expression system for standard: NS0; Immunogen sequence: E22-L401. The kit is analytically validated with ready-to-use reagents. To measure Human TNFRSF11B, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human TNFRSF11B in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human TNFRSF11B in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	322510101
NCBI GeneID	4982
UniProt Accession #	O00300; O60236; Q53FX6; Q9UHP4; B2R9A8
Molecular Weight	46,026 Da
NCBI Official Full Name	Tumor necrosis factor receptor superfamily member 11B
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily, member 11b
NCBI Official Symbol	TNFRSF11B
NCBI Official Synonym Symbols	OPG; TR1; OCIF
NCBI Protein Information	tumor necrosis factor receptor superfamily member 11B; osteoprotegerin; osteoclastogenesis inhibitory factor
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 11B
UniProt Gene Name	TNFRSF11B
UniProt Synonym Gene Names	OCIF; OPG
UniProt Entry Name	TR11B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/opg-tnfrsf11b-osteoprotegerin/11548>