

Mouse Osteoprotegerin (OPG) ELISA Kit | OPG elisa kit

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CATALOG #
AAA332142

REACTIVITY
Mouse

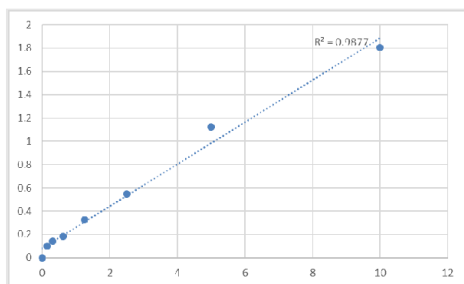
PRODUCT SYNONYMS

Osteoprotegerin (OPG); Mouse Osteoprotegerin (OPG) ELISA Kit; TNFRSF11B; MGC29565; OCIF; OPG; TR1; osteoclastogenesis inhibitory factor; osteoprotegerin; OPG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Osteoprotegerin (OPG) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TNFRSF11B. No significant cross-reactivity or interference between Mouse TNFRSF11B and analogues was observed.
Sequence Length	401
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Mouse Osteoprotegerin (OPG) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for OPG elisa kit	Description: This Mouse Osteoprotegerin (OPG) ELISA Kit employs a two-site sandwich ELISA to quantitate TNFRSF11B in samples. An antibody specific for TNFRSF11B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TNFRSF11B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNFRSF11B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TNFRSF11B bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Osteoprotegerin (OPG) is a cytokine, which can inhibit the production of osteoclasts. It is a member of the tumor necrosis factor (TNF) receptor superfamily. It is a basic glycoprotein comprising 401 amino acid residues arranged into 7 structural domains. It is found as either a 60 kDa monomer or 120 kDa dimer linked by disulfide bonds. Osteoprotegerin inhibits the differentiation of osteoclast precursors into osteoclasts and also regulates the resorption of osteoclasts in vitro and in vivo. Osteoprotegerin is a RANK homolog, and works by binding to RANKL on osteoblast/stromal cells, thus blocking the RANKL-RANK ligand interaction between osteoblast/stromal cells and osteoclast precursors. This has the effect of inhibiting the differentiation of the osteoclast precursor into a mature osteoclast.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	113930716
NCBI GeneID	18383
NCBI Accession #	NP_032790.3
NCBI GenBank Nucleotide #	NP_032790.3
UniProt Accession #	O08712
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 11B
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)
NCBI Official Symbol	Tnfrsf11b
NCBI Official Synonym Symbols	Opg; TR1; OCIF
NCBI Protein Information	tumor necrosis factor receptor superfamily member 11B
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 11B
UniProt Gene Name	Tnfrsf11b
UniProt Synonym Gene Names	Ocif; Opg

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/osteoprotegerin-opg/332142>