

Rat Osteoprotegerin ELISA Kit | OPG elisa kit

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CATALOG #
AAA102212

REACTIVITY
Rat

PRODUCT SYNONYMS

Osteoprotegerin; Rat Osteoprotegerin ELISA Kit; OPG (Osteoprotegerin)/OCIF/TNFRSF11B/OCIFMGC29565/OPG tumor necrosis factor receptor superfamily member 11B/Osteoclastogenesis inhibitory factor/Osteoprotegerin/osteoprotegerin/TR1/tumor necrosis factor receptor superfamily; member 11b; OPG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of OPG. No significant cross-reactivity or interference between OPG and analogues was observed.
Sequence Length	401
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	62.5-4000pg/ml
Sensitivity	37.5pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level OPG were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level OPG were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a OPG ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

X	pg/ml	0	62.5	125	250	500	1000	2000	4000
Y	OD450	0.011	0.067	0.127	0.282	0.562	1.123	1.737	2.246

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OPG elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-OPG antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-OPG antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the OPG amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of OPG can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	2072185
NCBI GeneID	4982
Molecular Weight	46,026 Da
NCBI Official Full Name	osteoprotegerin
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily member 11b
NCBI Official Symbol	TNFRSF11B
NCBI Official Synonym Symbols	OPG; TR1; OCIF; PDB5
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
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://www.aaabiotech.com/opg-rat-elisa-kits/osteoprotegerin/102212>