

ARG83018 Human Osteoprotegerin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package
ARG83018-01	Antibody-coated microplate	8 X 12 strips
ARG83018-02	Standard (Lyophilized)	3 X 2 ng/vials
ARG83018-03	Standard diluent buffer	20 ml
ARG83018-04	Antibody conjugate concentrate	1 vial
ARG83018-05	Antibody diluent buffer	16 ml
ARG83018-06	HRP-Streptavidin concentrate	1 vial
ARG83018-07	HRP-Streptavidin diluent buffer	16 ml
ARG83018-08	20X Wash buffer	50 ml
ARG83018-09	TMB substrate	12 ml
ARG83018-10	STOP solution	12 ml
ARG83018-11	Plate sealer	4 strips

Summary

Product Description	ARG83018 Human Osteoprotegerin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Osteoprotegerin in serum, plasma (heparin), ascites, urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Not cross-reacts with: Human CD40, TNF RI, TNF RII
Target Name	TNFRSF11B
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin), ascites, urine and cell culture supernatants.
Standard Range	62.5-4000 pg/ml
Sample Volume	100 µl
Alternate Names	TNFRSF11B, TNF Receptor Superfamily Member 11b, OCIF, Osteoclastogenesis Inhibitory Factor, Osteoprotegerin, TR1, OPG, Tumor Necrosis Factor Receptor Superfamily, Member 11b, Tumor Necrosis

Application Instructions

Assay Time ~ 4 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol TNFRSF11B

Gene Full Name TNF Receptor Superfamily Member 11b

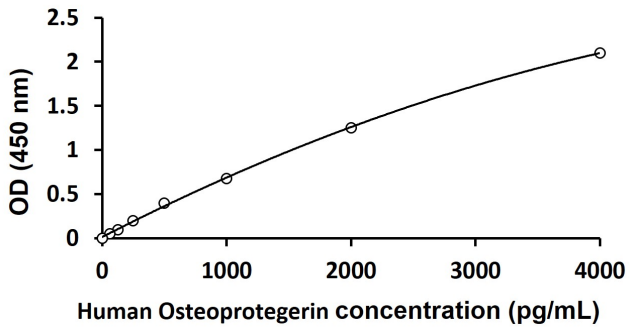
Background The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein is an osteoblast-secreted decoy receptor that functions as a negative regulator of bone resorption. This protein specifically binds to its ligand, osteoprotegerin ligand, both of which are key extracellular regulators of osteoclast development. Studies of the mouse counterpart also suggest that this protein and its ligand play a role in lymph-node organogenesis and vascular calcification. Alternatively spliced transcript variants of this gene have been reported, but their full length nature has not been determined. [provided by RefSeq, Jul 2008]

Function Acts as decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. Inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. May also play a role in preventing arterial calcification. May act as decoy receptor for TNFSF10/TRAIL and protect against apoptosis. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis. [UniProt]

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PTM Disulfide bond, Glycoprotein. [UniProt]

Cellular Localization Secreted. [UniProt]



ARG83018 Human Osteoprotegerin ELISA Kit standard curve image

ARG83018 Human Osteoprotegerin ELISA Kit results of standard run with optical density reading at 450 nm