

ARG81667 Mouse Osteoprotegerin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81667-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81667-002	Standard	2 X 10 ng/vial	4°C
ARG81667-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81667-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81667-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81667-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81667-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81667-008	25X Wash buffer	20 ml	4°C
ARG81667-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81667-010	STOP solution	10 ml (Ready to use)	4°C
ARG81667-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81667 Mouse Osteoprotegerin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Osteoprotegerin in serum, plasma (EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Osteoprotegerin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	46.85 pg/ml
Sample Type	Serum, plasma (EDTA) and cell culture supernatants.
Standard Range	93.7 - 6000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.5%; Inter-Assay CV: 6.0%
Alternate Names	OCIF; Osteoclastogenesis inhibitory factor; Tumor necrosis factor receptor superfamily member 11B; PDB5; Osteoprotegerin; OPG; TR1

Application Instructions

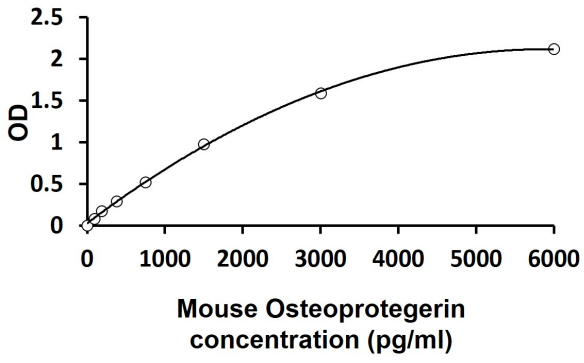
Assay Time	~ 5 hours
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Properties

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	tumor necrosis factor 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]
Highlight	Related products: Osteoprotegerin antibodies ; Osteoprotegerin ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	N-glycosylated. Contains sialic acid residues. The N-terminus is blocked. [UniProt]



ARG81667 Mouse Osteoprotegerin ELISA Kit standard curve image

ARG81667 Mouse Osteoprotegerin ELISA Kit results of a typical standard run with optical density reading at 450 nm.
