



Mouse Osteoprotegerin, OPG ELISA KIT

Product Code	CSB-E04693m
Abbreviation	TNFRSF11B
Protein Biological Process 1	Apoptosis/Autophagy
Target Name	tumor necrosis factor receptor superfamily, member 11b
Uniprot No.	O08712
Alias	MGC29565, OCIF, OPG, TR1, osteoclastogenesis inhibitory factor osteoprotegerin
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Apoptosis
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cell Biology
Gene Names	Tnfrsf11b
Tag Info	quantitative
Protein Description	Sandwich

Description	This Mouse TNFRSF11B ELISA Kit was designed for the quantitative measurement of Mouse TNFRSF11B protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
--------------------	--

Target Details	This protein 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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse OPG in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:5	Average %	87
	Range %	83-90
1:10	Average %	102
	Range %	98-106
1:20	Average %	85
	Range %	81-89
1:40	Average %	97
	Range %	93-100

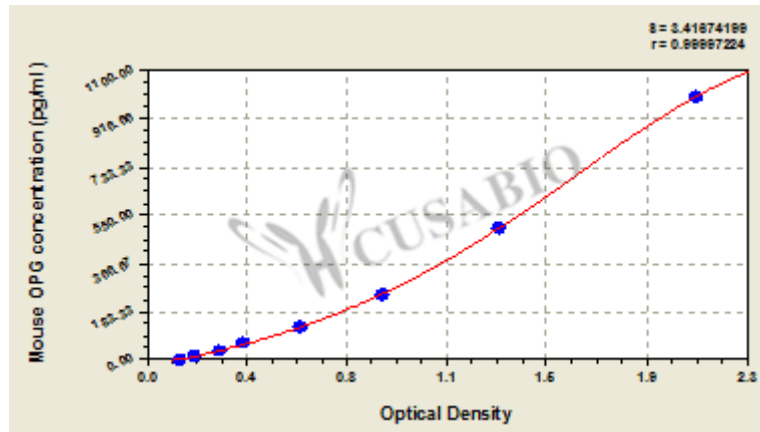
Recovery

The recovery of mouse OPG spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	85	81-89
EDTA plasma (n=4)	96	92-99

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
1000	2.045	2.102	2.074	1.938
500	1.357	1.308	1.333	1.197
250	0.879	0.915	0.897	0.761
125	0.593	0.578	0.586	0.450
62.5	0.381	0.368	0.375	0.239
31.2	0.275	0.298	0.287	0.151
15.6	0.193	0.187	0.190	0.054
0	0.135	0.137	0.136	?

Msds

```
{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-E04693m.pdf",
    "filename": "MSDS"
  }
}
```