

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Osteoprotegerin/TNFRSF11B in ELISAs. It has been reported (1), and R&D Systems testing has confirmed, that this antibody shows strong cross-reactivity with an unrelated protein, human Carbonic Anhydrase II. In Western blots, this antibody does not cross-react with recombinant human (rh) 4-1BB, rhCD27, rhCD30, recombinant mouse (rm) CD30, rmCD40, rhDR3, rhDR6, rhFas, rmFas, rhGITR, rmGITR, rhHVEM, rhLTβR, rhNGF R, rmOPG, rhTNF RI, rmTNF RI, rhTNF RII, or rmTNF RII.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 69127
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Osteoprotegerin/TNFRSF11B Glu22-Leu401 Accession # O00300
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Human Osteoprotegerin/TNFRSF11B Sandwich Immunoassay	Reagent
<b>ELISA Capture</b>	2-8 µg/mL Human Osteoprotegerin/TNFRSF11B Antibody (Catalog # MAB8051)
<b>ELISA Detection</b>	0.1-0.4 µg/mL Human Osteoprotegerin/TNFRSF11B Biotinylated Antibody (Catalog # BAF805)
<b>Standard</b>	Recombinant Human Osteoprotegerin/TNFRSF11B (Catalog # 185-OS)

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Osteoprotegerin is a member of the TNF receptor superfamily expressed by many cell types. It exists in soluble monomeric and dimeric forms as a decoy receptor for its ligands, TRANCE and TRAIL. Osteoprotegerin functions as an antagonist to RANKL-induced osteoclastogenesis and bone resorption.

### References:

1. Waterman, E.A. *et al.* (2007) *Intl. J. Cancer* **121**:1958.