

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Mouse IgG _{2A} Clone # 69127
Purification	Protein A or G purified from ascites
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Osteoprotegerin/TNFRSF11B Glu22-Leu401 Accession # O00300
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
ELISA Capture	2-8 μg/mL	Human Osteoprotegerin/TNFRSF11B Antibody (Catalog # MAB8051)
ELISA Detection	0.1-0.4 μg/mL	Human Osteoprotegerin/TNFRSF11B Biotinylated Antibody (Catalog # BAF805)
Standard		Recombinant Human Osteoprotegerin/TNFRSF11B (Catalog # 185-OS)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.