Human Osteoprotegerin/TNFRSF11B Antibody

Monoclonal Mouse IgG_1 Clone # 69146

Catalog Number: MAB805

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Osteoprotegerin/TNFRSF11B in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse Osteoprotegerin is observed.
Source	Monoclonal Mouse IgG_1 Clone # 69146
Purification	Protein A or G purified from ascites
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human Osteoprotegerin/TNFRSF11B Glu22-Leu401 Accession # AAB53709
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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.

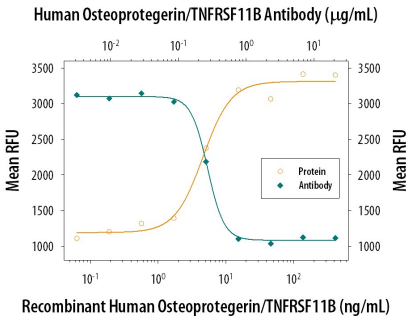
APPLICATIONS

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.*

Neutralization	Measured by its ability to neutralize Osteoprotegerin/TNFRSF11B-mediated inhibition of cytotoxicity in the L-929 mouse fibroblast cell line. The Neutralization Dose (ND_{50}) is typically 0.15-0.3 µg/mL in the presence of 0.1 µg/mL Recombinant Human Osteoprotegerin/TNFRSF11B Fc Chimera, 50 ng/mL Recombinant Human TRAIL/TNFSF10, and 0.5 µg/mL actinomycin D.

DATA

Neutralization



Osteoprotegerin/TNFRSF11B Inhibition of TRAIL/TNFSF10-induced Cytotoxicity and Neutralization by Human Osteoprotegerin/TNFRSF11B Antibody. In the presence of the metabolic inhibitor actinomycin D (0.5 µg/mL), Recombinant Human Osteoprotegerin/TNFRSF11B Fc Chimera (Catalog # 805-OS) inhibits Recombinant Human TRAIL/TNFSF10 (Catalog # 375-TL) induced cytotoxicity in the L-929 mouse fibroblast cell line in a dose-dependent manner (orange line). Under these conditions, inhibition of Recombinant Human TRAIL/TNFSF10 (50 ng/mL) activity elicited by Recombinant Human Osteoprotegerin/TNFRSF11B Fc Chimera (0.1 µg/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human Osteoprotegerin/TNFRSF11B Monoclonal Antibody (Catalog # MAB805). The ND_{50} is typically 0.15-0.3 µg/mL.

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.** ● 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.

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