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Anti-H_RANKL hIgG2 Antibody(Denosumab)

Product information

GM-77688AB-10	10 μg
GM-77688AB-100	100 μg
GM-77688AB-1000	1 mg

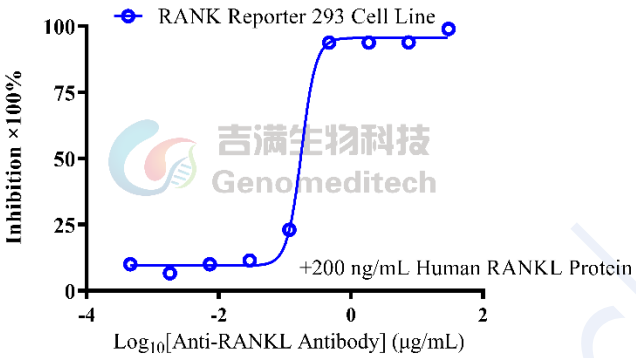
Antibody Information

Species Reactivity	Human;
Clone	Denosumab
Source/Isotype	Monoclonal human IgG2, κ
Application	Block assay
Specificity	Detects RANKL
Gene	RANKL
Other Names	CD254, ODF, OPGL, OPTB2, RANKL, TNLG6B, TRANCE, hRANKL2, sOdf
Gene ID	8600 (human);
Background	This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dentritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found.
Storage	Store at 2-8℃ short term (1-2 weeks).Store at ≤ -20℃ long term. Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Data Examples

Block assay

Anti-H_RANKL hIgG2 Antibody(Denosumab) (Catalog # GM-77688AB) inhibits RANK Reporter 293 Cell Line (Catalog #GM-C19909), Luminescence induced by Human RANKL Protein. The EC50 for this effect is 0.1787ug/mL.



	RANK Reporter 293 Cell Line
IC50	0.1787

Fig. assay