

## ARG56597 anti-CD254 / RANKL antibody [2.1\_3C12-2D11]

Package: 200 μg, 100 μg Store at: -20°C

## Summary

Product Description	Mouse Monoclonal antibody [2.1_3C12-2D11] recognizes CD254 / RANKL
Tested Reactivity	Ни
Tested Application	ELISA
Host	Mouse
Clonality	Monoclonal
Clone	2.1_3C12-2D11
Isotype	IgG1, kappa
Target Name	CD254 / RANKL
Species	Human
Immunogen	E.coli derived Recombinant Human CD254 / RANKL. (MEKAMVDGSW LDLAKRSKLE AQPFAHLTIN ATDIPSGSHK VSLSSWYHDR GWAKISNMTF SNGKLIVNQD GFYYLYANIC FRHHETSGDL ATEYLQLMVY VTKTSIKIPS SHTLMKGGST KYWSGNSEFH FYSINVGGFF KLRSGEEISI EVSNPSLLDP DQDATYFGAF KVRDID)
Conjugation	Un-conjugated
Alternate Names	TRANCE; Osteoprotegerin ligand; CD254; sOdf; Receptor activator of nuclear factor kappa-B ligand; OPTB2; RANKL; OPGL; Tumor necrosis factor ligand superfamily member 11; hRANKL2; TNF-related activation-induced cytokine; Osteoclast differentiation factor; ODF; CD antigen CD254

## **Application Instructions**

Application table	Application	Dilution
	ELISA	Sandwich: 1.0 - 2.0 $\mu\text{g}/\text{ml}$ with ARG56762 as a detection antibody
Application Note	* The dilutions indicate recomm should be determined by the sci	ended starting dilutions and the optimal dilutions or concentrations entist.

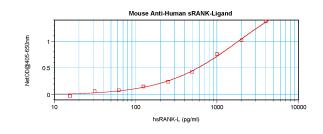
### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	GenelD: 8600 Human
	Swiss-port # 014788 Human
Gene Symbol	TNFSF11
Gene Full Name	tumor necrosis factor (ligand) superfamily, member 11
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. [provided by RefSeq, Jul 2008]
Function	Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy. [UniProt]
Calculated Mw	35 kDa
РТМ	The soluble form of isoform 1 derives from the membrane form by proteolytic processing (By similarity). The cleavage may be catalyzed by ADAM17.

#### Images



# ARG56597 anti-CD254 / RANKL antibody [2.1\_3C12-2D11] standard curve image

Sandwich ELISA: ARG56597 anti-CD254 / RANKL antibody [2.1\_3C12-2D11] as a capture antibody at 1.0 - 2.0  $\mu$ g/ml combined with ARG56762 anti-CD254 / RANKL antibody (Biotin) as a detection antibody at ~ 0.125 - 0.25  $\mu$ g/ml. Results of a typical standard run with optical density.