

ARG56652 anti-CD254 / RANKL antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CD254 / RANKL
Tested Reactivity	Hu, Ms
Tested Application	ELISA, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CD254 / RANKL
Species	Human
Immunogen	E.coli derived Recombinant Human CD254 / RANKL. (MEKAMVDGSW LDIAKRSKLE AQPFAHLTIN ATDIPSGSHK VLSWYHNR GWAKISNMTF SNGKLIVNQD GFYLYANIC FRHHETSGDL ATEYLQLMVY VTKTSIKIPS SHTLMKGGST KYWSGNSEFH FYSINVGGFF KLRSGEISI 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: 0.5 - 2.0 µg/ml with ARG56762 as a detection antibody
	IHC-P	0.25 µg/ml
	WB	0.1 - 0.2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

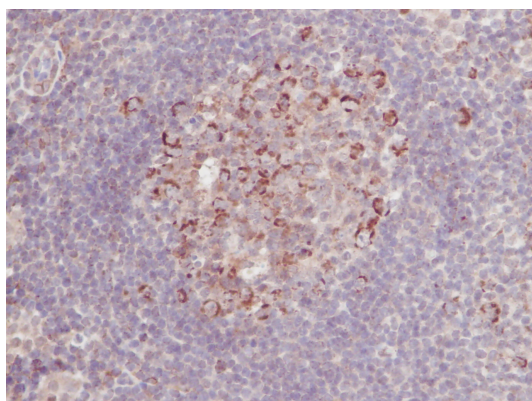
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

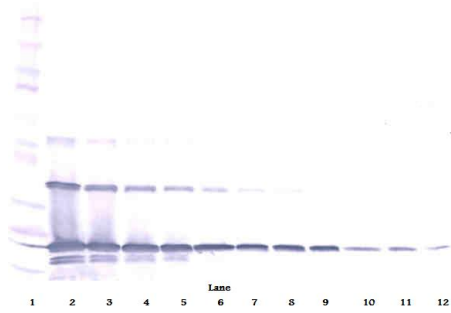
Database links	GeneID: 21943 Mouse GeneID: 8600 Human Swiss-port # O14788 Human Swiss-port # O35235 Mouse
Gene Symbol	TNFSF11
Gene Full Name	tumor necrosis factor (ligand) superfamily, member 11
Background	This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dendritic 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
PTM	The soluble form of isoform 1 derives from the membrane form by proteolytic processing (By similarity). The cleavage may be catalyzed by ADAM17.

Images



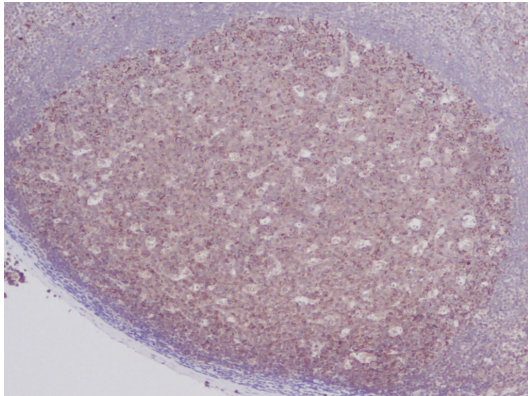
ARG56652 anti-CD254 / RANKL antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded sections of Human metastatic carcinoma of lymph node from breast tissue. The recommended ARG56652 anti-CD254 / RANKL antibody concentration is 0.25 µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with a DAB chromogen. Antigen Retrieval: Boil tissue section in Sodium Citrate buffer (pH 6.0) followed by cooling at RT for 20 min.



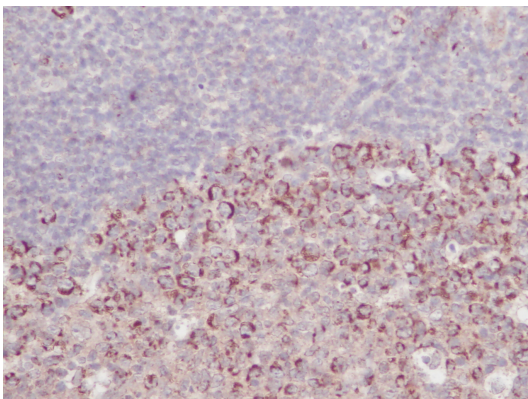
ARG56652 anti-CD254 / RANKL antibody WB image

Western blot: 250 - 0.24 ng of Human sRANKL stained with ARG56652 anti-CD254 / RANKL antibody, under reducing conditions.



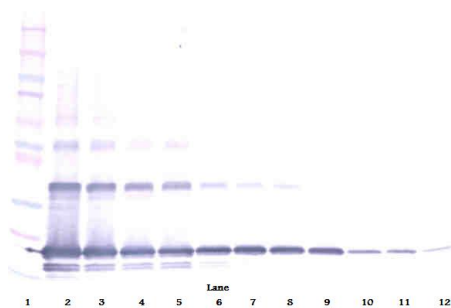
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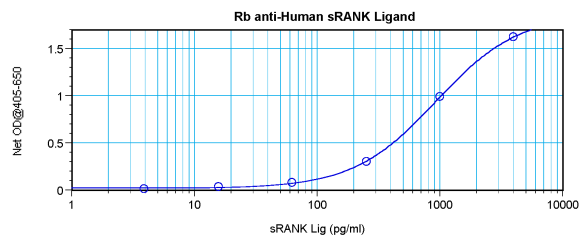
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ARG56652 anti-CD254 / RANKL antibody WB image

Western blot: 250 - 0.24 ng of Human sRANKL stained with ARG56652 anti-CD254 / RANKL antibody, under non-reducing conditions.



ARG56652 anti-CD254 / RANKL antibody standard curve image

Sandwich ELISA: ARG56652 anti-CD254 / RANKL antibody as a capture antibody at 0.5 - 2.0 $\mu\text{g/ml}$ combined with ARG56762 anti-CD254 / RANKL antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density.