

ARG55101 anti-CD254 / RANKL antibody

Package: 50 µg
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes CD254 / RANKL |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | ELISA, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | CD254 / RANKL |
| Immunogen | Synthetic peptide within aa. 140-190 of Human CD254 / RANKL. |
| 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 | Assay-dependent |
| | IHC-P | 5 µg/ml |
| | WB | 0.5 - 2 µg/ml |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

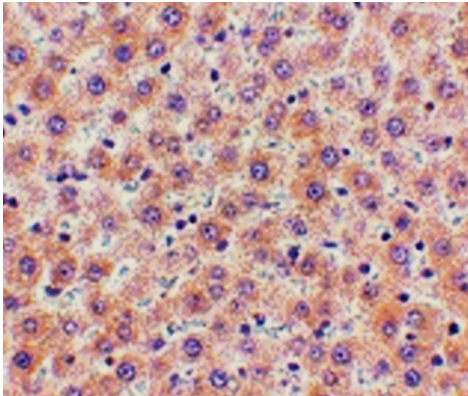
Properties

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|---------------------|--|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | PBS and 0.02% Sodium azide |
| Preservative | 0.02% Sodium azide |
| 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

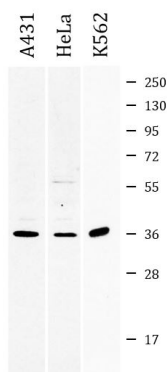
| | |
|----------------|--|
| Gene Symbol | TNFSF11 |
| Gene Full Name | tumor necrosis factor (ligand) superfamily, member 11 |
| Background | anti-RANKL antibody: The receptor activator of NF- κ B ligand (RANK-L) is a recently discovered member of the TNF-ligand family involved in the regulation of the T cell-dependent immune response, lymph node organogenesis and bone formation. RANK-L exists as both a normal, transmembrane form and a truncated, soluble form (sRANK-L), both of which can stimulate the receptor. Activation of T cells, such as by treatment with interleukin-7, induces RANK-L production and leads to an increase of osteoclast formation and bone loss. Finally, sRANK-L can activate the antiapoptotic kinase Akt through a signaling complex involving Src kinase and TRAF6, suggesting sRANK-L may also play a role in regulating apoptosis. This antibody will recognize both the soluble form and the uncleaved transmembrane form of RANK-L. |
| 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] |
| Research Area | Cell Biology and Cellular Response antibody; Immune System antibody |
| 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



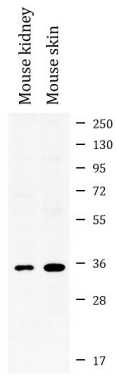
ARG55101 anti-CD254 / RANKL antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver tissue. Tissue was fixed with formaldehyde and block with 10% serum for 1 hour at RT. Antigen Retrieval: Heat mediation was performed in citrate buffer (pH 6.0). Samples were stained with ARG55101 anti-CD254 / RANKL antibody at 5 μ g/ml dilution, overnight at 4°C. Counter stained with Hematoxylin.



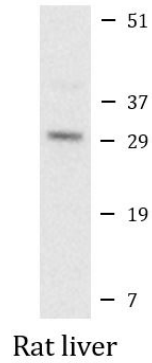
ARG55101 anti-CD254 / RANKL antibody WB image

Western blot: 15 μ g of A431, HeLa and K562 cell lysates stained with ARG55101 anti-CD254 / RANKL antibody at 1 μ g/ml dilution and incubated at RT for 1 hour, in 5% NFDm/TBST.



ARG55101 anti-CD254 / RANKL antibody WB image

Western blot: 15 μ g of Mouse kidney and Mouse skin lysates stained with ARG55101 anti-CD254 / RANKL antibody at 2 μ g/ml dilution and incubated at RT for 1 hour, in 5% NFDN/TBST.



ARG55101 anti-CD254 / RANKL antibody WB image

Western blot: 15 μ g of Rat liver lysate stained with ARG55101 anti-CD254 / RANKL antibody at 0.5 μ g/ml dilution and incubated at RT for 1 hour, in 5% NFDN/TBST.