

Anti-Mouse CD254 (RANK Ligand) Purified

Catalog Number: 14-5952

Also Known As: OPGL, TNFSF11, ODF

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse CD254 (RANK Ligand) Purified

REF **Catalog Number:** 14-5952

Clone: IK22/5

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Contains sodium azide

Description

The IK22/5 monoclonal antibody reacts with mouse CD254 also known as TRANCE (TNF-related activation-induced cytokine receptor) and RANKL (receptor activator of NF-kappa B ligand) and OPGL (Osteoprotegerin Ligand). TRANCE is a type II membrane protein with predicted molecular weight of 35 kDa. Its extracellular domain is most closely related to TRAIL, FasL and TNF. TRANCE mRNA is upregulated by TCR stimulation and is expressed abundantly by mouse T cells not B cells in mouse thymus and lymph nodes. TRANCE-deficient mouse lacks osteoclasts. In addition, TRANCE has been shown to be involved in the interactions between T-dendritic and T-B cells. It was also found to be critical in osteoclast differentiation. The TRANCE-RANK interaction regulates the expression of the anti-apoptotic molecule Bcl-x_L.

Applications Reported

This IK22/5 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The IK22/5 antibody has been tested by flow cytometric analysis on mouse CD254/TRANCE transfected cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Vondenhoff MF, Greuter M, Goverse G, Elewaut D, Dewint P, Ware CF, Hoorweg K, Kraal G, Mebius RE. LTbetaR signaling induces cytokine expression and up-regulates lymphangiogenic factors in lymph node anlagen. *J Immunol.* 2009 May 1;182(9):5439-45. (**IK22/5**, IF, PubMed)

Kamijo S, Nakajima A, Ikeda K, Aoki K, Ohya K, Akiba H, Yagita H, Okumura K. Amelioration of bone loss in collagen-induced arthritis by neutralizing anti-RANKL monoclonal antibody. *Biochem Biophys Res Commun.* 2006 Aug 18;347(1):124-32. (**IK22/5**, FA, FC, PubMed)

Cremer, I., M. C. Dieu-Nosjean, S. Marechai, C. Dezutter-Dambuyant, S. Goddard, D. Adams, N. Winter, C. Menetrier-Caux, C. Sautes-Fridman, W. H. Fridman, C. G. F. Mueller. 2002. Long-lived Immature Dendritic Cells Mediated by TRANCE-RANK interaction. *Blood.* 100:3646-3655.

Wong, B. R., R. Josien, Y. Choi. 1999. TRANCE is a TNF Family Member That Regulated Dendritic Cell and Osteoclast Function. *J. Leukoc. Biol.* 65:715-724.

Related Products

11-4811 Anti-Rat IgG FITC

17-4317 Streptavidin APC

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