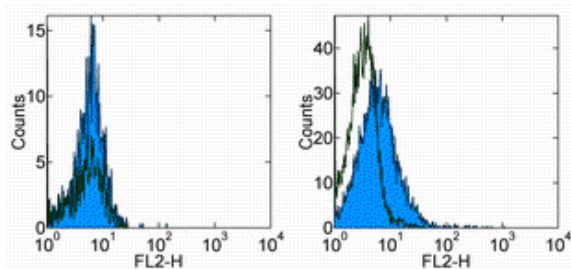


## Anti-Mouse CD254 (RANK Ligand) PE

**Catalog Number:** 12-5952

**Also Known As:** OPGL, TNFSF11, ODF

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



Staining of 3-day unstimulated (left) and 3-day ConA-stimulated (right) BALB/c splenocytes with 0.125 ug of Rat IgG2a K Isotype Control PE (cat. 12-4321) (open histogram) or 0.125 ug of Anti-Mouse CD254 PE (filled histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD254 (RANK Ligand) PE

**REF** **Catalog Number:** 12-5952

**Clone:** IK22/5

**Concentration:** 0.2 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. Do not freeze. Light sensitive material.



**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<sub>L</sub>.

### Applications Reported

The 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 of mouse CD254 (TRANCE) transfected cells. This can be used at less than or equal to 0.25 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 10<sup>5</sup> to 10<sup>8</sup> 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

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.eBioscience.com](http://www.eBioscience.com) • [info@eBioscience.com](mailto:info@eBioscience.com)