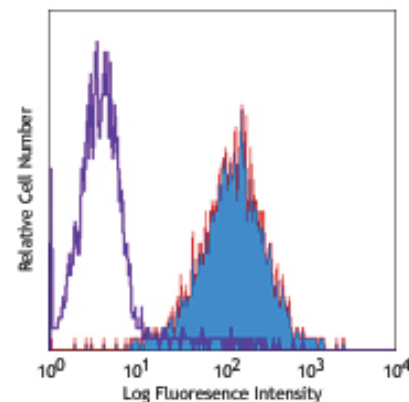


## Purified anti-mouse CD254 (TRANCE, RANKL)

**Catalog # / Size:** 510002 / 500 µg  
**Clone:** IK22/5  
**Isotype:** Rat IgG2a, κ  
**Immunogen:** NSO-derived recombinant mouse TRANCE  
**Reactivity:** Mouse  
**Preparation:** The antibody was purified by affinity chromatography.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.5 mg/ml  
**Storage:** The antibody solution should be stored undiluted at 4°C.



Mouse TRANCE transfected cells stained with purified IK22-5, followed by biotinylated anti-rat IgG and Sav-PE

## Applications:

**Applications:** FC - *Quality tested*  
 IP, WB - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric analysis, the suggested use of this reagent is ≤1.0 µg per 10<sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** The IK22/5 antibody has been reported to block the binding of RANK ligand-Fc to RANK. Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>2</sup>, Western blotting<sup>2</sup>, and blocking of ligand binding<sup>1,2,4</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 510008).

**Application References:**

- Miyahira Y, *et al.* 2003. *J. Immunol.* 171:6344. (Block)
- Personal communication (Block IP WB)
- Gao Y, *et al.* 2007. *J. Clin. Invest.* 117:122.
- Kamijo S, *et al.* 2006. *Biochem. Biophys. Res. Commun.* 347:124. (Block)
- Fionda C, *et al.* 2007. *J. Immunol.* 178:4039.
- Haslam SZ, *et al.* 2008. *Endocrinology.* 149:2098. (Block) PubMed

**Description:** CD254 is a 19 kD TNF superfamily member also known as TRANCE (TNF-related activation induced cytokine), RANK ligand, RANKL, TNFSF11, OPGL, and ODF. TRANCE is expressed on activated T cells and osteoclasts and has been implicated in the regulation of T cell and dendritic cell interactions as well as osteoclast differentiation.

**Antigen References:**

- Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook.* Academic Press San Diego.
- Josien R, *et al.* 1999. *J. Immunol.* 162:2562.
- Takayanagi H, *et al.* 2000. *Nature* 408:600.
- Wong B, *et al.* 1999. *Mol. Cell.* 4:1041.

### Related Products:

**Product**  
 Biotin Goat anti-rat IgG (minimal x-reactivity)  
 HRP Streptavidin  
 Purified Rat IgG2a, κ Isotype Ctrl

**Clone**  
 Poly4054  
 RTK2758

**Application**  
 FC, ELISA, WB  
 ELISA, ELISPOT, IHC, WB  
 FC, ICC, IF, IHC, IP, WB



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