

# Product Data Sheet

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

**Catalog # / Size:** 510003 / 50 µg  
510004 / 500 µg

**Clone:** IK22/5

**Isotype:** Rat IgG2a, κ

**Immunogen:** NSO-derived recombinant mouse TRANCE

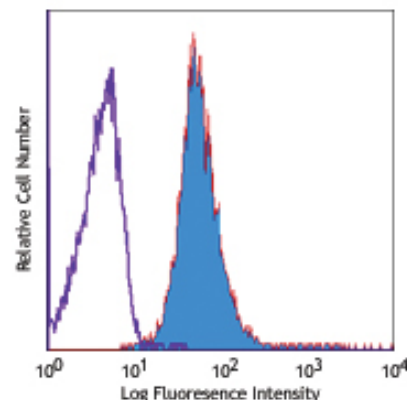
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**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. **Do not freeze.**



Mouse TRANCE transfected cells stained with biotinylated IK22-5, followed by Sav-PE

## Applications:

**Applications:** FC - Quality tested

**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  $\leq 1.0$  µg per  $10^6$  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:**

1. Miyahira Y, *et al.* 2003. *J. Immunol.* 171:6344. (Block)
2. Personal communication (Block IP WB)
3. Gao Y, *et al.* 2007. *J. Clin. Invest.* 117:122.
4. Kamijo S, *et al.* 2006. *Biochem. Biophys. Res. Commun.* 347:124. (Block)
5. Fionda C, *et al.* 2007. *J. Immunol.* 178:4039.
6. Haslam SZ, *et al.* 2008. *Endocrinology.* 149:2098. (Block) PubMed
7. Wain MN, *et al.* 2012. *PNAS.* 109:8173. 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:**

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

**Related Products:** Product  
Biotin Rat IgG2a, κ Isotype Ctrl

**Clone**  
RTK2758

**Application**  
FC, ICFC



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