

Product Data Sheet

LEAF™ Purified anti-mouse CD254 (TRANCE, RANKL)

Catalog # / Size: 510007 / 50 µg
510008 / 500 µg

Clone: IK22/5

Isotype: Rat IgG2a, κ

Immunogen: NSO-derived recombinant mouse TRANCE

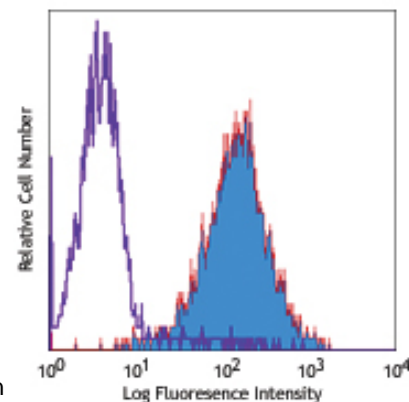
Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



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

Applications:

Applications: FC - *Quality tested*
IP, WB, Block - *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 ≤0.25 µg per 10⁶ 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: immunoprecipitation², Western blotting², and blocking of ligand binding^{1,2,4}. 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

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	Clone	Application
	Recombinant Mouse CD254 (TRANCE, RANKL)		BA
	LEAF™ Purified Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC, WB, IP, ICC, IF, IHC, FA



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