

# CD254 (RANK Ligand) Monoclonal Antibody (IK22/5), PE

Catalog NumberA18418

Product data sheet

| Details            |                     | Species Reactivity   |            |
|--------------------|---------------------|--|------------|
| Size               | 50 µg               | Species reactivity   | Mouse      |
| Host/Isotope       | Rat / IgG2a, kappa  | Tested Applications  |            |
| Class              | Monoclonal          | Flow Cytometry (Flow)  | Dilution * |
| Type               | Antibody            | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. |            |
| Clone              | IK22/5              |  |            |
| Immunogen          | Mouse CD254 Protein |  |            |
| Conjugate          | PE                  |  |            |
| Form               | Liquid              |  |            |
| Concentration      | 0.2 mg/mL           |  |            |
| Storage Conditions | 4° C                |  |            |

## Background/Target Information

This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dentritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found.

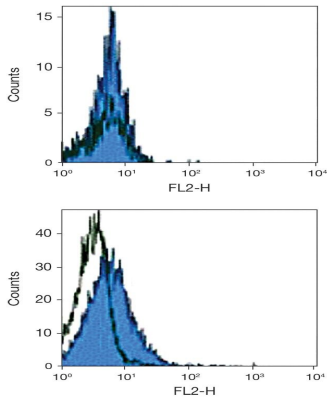
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Product Images For CD254 (RANK Ligand) Monoclonal Antibody (IK22/5), PE



CD254 (RANK Ligand) Antibody (A18418) in Flow

Staining of 3-day unstimulated (top) and 3-day ConA-stimulated (bottom) BALB/c splenocytes with 0.125 ug of Rat IgG2a K Isotype Control PE (open histogram) or 0.125 ug of Anti-Mouse CD254 PE (filled histogram, A18418). Total viable cells were used for analysis.

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