Alexa Fluor® 647 Rat anti-Mouse RANKL/TRANCE

Product Information

Material Number: 560296
Alternate Name: TRANCE, TRANCEODF, OPGL, sOdf, CD254, OPTB2, hRANKL2
Size: 0.1 mg
Concentration: 0.2 mg/ml
Clone: IK22-5
Immunogen: Mouse recombinant RANKL
Isotype: Rat IgG2a, κ
Reactivity: QC Testing: mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

TRANCE/RANKL/OPGL/ODF is a recently identified member of the tumor necrosis factor family. TRANCE (TNF-Related Activation-Induced Cytokine Receptor) or RANKL (Receptor Activator of NF-κB Ligand) has been implicated in interactions between T cells and dendritic cells. TRANCE/RANKL binds to RANK on dendritic cells, upregulates the expression of anti-apoptotic protein Bcl-XL, suggesting a role in dendritic cell survival. TRANCE/RANKL is also important in T- and B-cell maturation. As OPGL/ODF (Osteoprotegerin/osteoclast Differentiation Factor), the same protein can both activate mature osteoclasts and mediate osteoclastogenesis. OPGL/TRANCE deficient mice show severe osteoporosis and complete absence of osteoclasts as a result of lack of osteogenesis. It is expressed abundantly by mouse activated T cells, not B cells. It is also expressed on osteoclasts.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unconjugated Alexa Fluor® 647 was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry Routinely Tested

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>557906</td>
<td>Alexa Fluor® 647 Rat IgG2a, κ Isotype Control</td>
<td>100 tests</td>
<td>R35-95</td>
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Product Notices

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1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
4. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
5. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as an analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
6. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
7. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.

References
Ando T, Ichikawa J, Wako M et al. TWEAK/Fn14 interaction regulates RANTES production, BMP-2-induced differentiation, and RANKL expression in mouse osteoblastic MC3T3-E1 cells. *Arthritis Res Ther.* 2006; 8(5):R146. (Biology)
Hofbauer LC, Schoppet M. Clinical implications of the osteoprotegerin/RANKL/RANK system for bone and vascular diseases. 2004; 292(4):490-495. (Biology)