

Biotin Anti-RANKL antibody [IK22/5] ab95720

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Overview

Product name	Biotin Anti-RANKL antibody [IK22/5]
Description	Biotin Rat monoclonal [IK22/5] to RANKL
Host species	Rat
Conjugation	Biotin
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	NSO derived recombinant Mouse RANKL.
Positive control	BALB/c splenocytes and Mouse RANKL transfected cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: 0.87% Sodium chloride, PBS</p>
Purity	Protein G purified
Clonality	Monoclonal
Clone number	IK22/5
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab95720 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 0.125-0.25µg for 10 ⁵⁻⁸ cells. A final volume of 100 µL is recommended for staining the cell sample. ab18445 - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target

Function

Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy.

Tissue specificity

Highest in the peripheral lymph nodes, weak in spleen, peripheral blood Leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach and thyroid.

Involvement in disease

Defects in TNFSF11 are the cause of osteopetrosis autosomal recessive type 2 (OPTB2) [MIM:259710]; also known as osteoclast-poor osteopetrosis. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. Autosomal recessive osteopetrosis is usually associated with normal or elevated amount of non-functional osteoclasts. OPTB2 is characterized by paucity of osteoclasts, suggesting a molecular defect in osteoclast development.

Sequence similarities

Belongs to the tumor necrosis factor family.

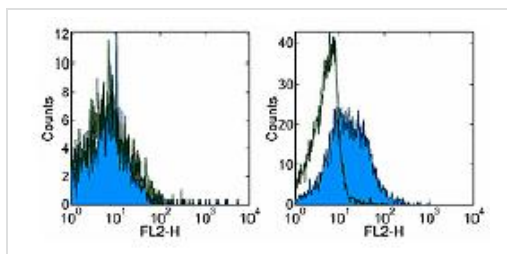
Post-translational modifications

The soluble form of isoform 1 derives from the membrane form by proteolytic processing (By similarity). The cleavage may be catalyzed by ADAM17.

Cellular localization

Cytoplasm; Secreted and Cell membrane.

Images



Flow Cytometry - Biotin Anti-RANKL antibody
[IK22/5] (ab95720)

Staining of 3 day unstimulated (left) and 3 day ConA activated (right) BALB/c splenocytes with 0.125 µg of Biotin Rat IgG2a Isotype Control (open histogram) or 0.125 µg of ab95720 (filled histogram) followed by Streptavidin PE. Total viable cells were used for analysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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