abcam

ab95720

Biotin Anti-RANKL antibody [IK22/5]

Anti-RANKL antibody [IK22/5] conjugated to Biotin - suitable for flow cytometry, and reacts with mouse samples. Clone [IK22/5] is a rat monoclonal antibody cited in 15 publications.

Key facts

Isotype	IgG2a
Host species	Rat
Conjugation	Biotin
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: PBS, 0.87% Sodium chloride
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Mouse Tnfsf11. Database link O35235
Clone number	IK22/5
Purification technique	Affinity purification Protein G
Light chain type	kappa

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	0.125-0.25 µg for 10^5-10^8 Cells
Notes	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 data

See full target information Tnfsf11

Function

Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor (PubMed:22437732). 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 (By similarity). Induces osteoclastogenesis by activating multiple signaling pathways in osteoclast precursor cells, chief among which is induction of long lasting oscillations in the intracellular concentration of Ca (2+) resulting in the activation of NFATC1, which translocates to the nucleus and induces osteoclast-specific gene transcription to allow differentiation of osteoclasts (PubMed:18586671, PubMed:24039232, PubMed:27336669). During osteoclast differentiation, in a TMEM64 and ATP2A2-dependent manner induces activation of CREB1 and mitochondrial ROS generation necessary for proper osteoclast generation (PubMed:23395171, PubMed:26644563).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Avoid freeze / thaw cycle

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

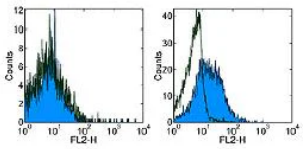
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1 product image



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

RANKL Flow Cytometry staining using rat Anti-RANKL antibody

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 OR THERAPEUTIC PROCEDURES'.