abcam

ab95576

PE Anti-IL-13 antibody [13A]

Anti-IL-13 antibody [13A] conjugated to PE - suitable for flow cytometry, and reacts with mouse samples. Clone [13A] is a rat monoclonal antibody cited in 4 publications.

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Key facts

Isotype	IgG1
Host species	Rat
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Mouse Il13. Database link P20109
Clone number	13A
Purification technique	Affinity purification Protein G
Light chain type	kappa
Concentration	0.2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	0.25 µg for 10^5-10^8 Cells
Notes	ab154449 - Rat monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target data

See full target information Il13

Function	Cytokine that plays important roles in allergic inflammation and immune response to parasite infection (PubMed:15361238). Synergizes with IL2 in regulating interferon-gamma synthesis. Stimulates B-cell proliferation, and activation of eosinophils, basophils, and mast cells (By similarity). Plays an important role in controlling IL33 activity by modulating the production of transmembrane and soluble forms of interleukin-1 receptor-like 1/IL1RL1 (PubMed:34789557). Displays the capacity to antagonize Th1-driven proinflammatory immune response and downregulates synthesis of many proinflammatory cytokines including IL1, IL6, IL10, IL12 and TNF through a mechanism that partially involves suppression of NF-kappa-B (By similarity). Also functions on nonhematopoietic cells, including endothelial cells where it induces vascular cell adhesion protein 1/VCAM1, which is important in the recruitment of eosinophils. Exerts its biological effects through its receptors which comprises the IL4R chain and the IL13RA1 chain, to activate JAK1 and TYK2, leading to the activation of STAT6 (PubMed:34795444, PubMed:8871614). Aside from IL13RA1, another receptor IL13RA2 acts as a high affinity decoy for IL13 and mediates internalization and depletion of extracellular IL13 (PubMed:29305434).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

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.

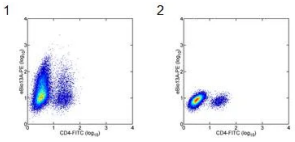
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1 product image



Flow Cytometry - PE Anti-IL-13 antibody [13A] (ab95576)

IL-13 Flow Cytometry staining using rat Anti-IL-13 antibody

ab95576 at 0.125 µg/test staining IL-13 by Flow Cytometry.
BALB/c splenocytes were cultured for 3 days with plate-bound Anti-Mouse CD3e, soluble Anti-Mouse CD28, Mouse IL2 Recombinant Protein and Mouse IL4 Recombinant Protein. Cells were then harvested and restimulated with PMA and Ionomycin in the presence of monensin for 5 hours. Following restimulation, cells were harvested, surface stained with Anti-Mouse CD4 FITC, fixed and permeabilized, then stained with 0.125 µg of ab95576 (1). The ligand blocking control demonstrates that pre-blocking ab95576 with 1.0 µg of Mouse IL-13 Recombinant Protein prior to staining abrogates specific mouse IL-13 staining (2).

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