abcam

ab325325

Anti-IL-13 antibody [EPR27282-114]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR27282-114
Purification technique	Affinity purification Protein A
Concentration	0.528 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/5000
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/50
Notes	-

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	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

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

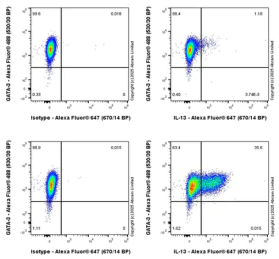
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

3 product images



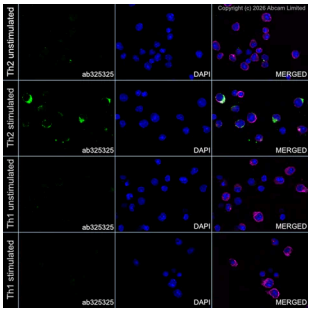
Flow Cytometry (Intracellular) - Anti-IL-13 antibody [EPR27282-114] (ab325325)

IL-13 Flow Cytometry (Intracellular) staining using rabbit Anti-IL-13 antibody

Flow cytometric analysis of Enriched mouse CD4+ T cells were cultured under Th2-polarizing conditions for 4 days then treated with 10ng/mL PMA, 500ng/mL Ionomycin and 300ng/ml BFA for 4 hours (Lower left and right) Enriched mouse CD4+ T cells were cultured under Th2-polarizing conditions for 4 days (Upper left and right) cells labelling IL-13 with abNeed ID4646 at 1/5000 dilution (0.01ug) / Upper right and Lower right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells. Cells were co-stained with anti-GATA-3 antibody conjugated to Alexa Fluor®488.



Immunocytochemistry/ Immunofluorescence - Anti-IL-13 antibody [EPR27282-114] (ab325325)

IL-13 Immunocytochemistry/ Immunofluorescence staining of Mouse Th2-polarized CD4+ naïve T cells 4 days activated with PMA (10ng/mL), Ionomycin (500ng/mL) and BFA (300ng/ml) for 4 hours using rabbit Anti-IL-13 antibody

Confocal image showing cytoplasmic staining in subsets of mouse Th2-polarized CD4+ naïve T cells 4 days activated with PMA (10ng/mL), Ionomycin (500ng/mL) and BFA (300ng/ml) for 4 hours (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue).

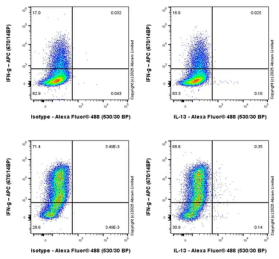
Th2 unstimulated : Mouse Th2-polarized CD4+ naïve T cells for 4 days.

Th2 stimulated : Mouse Th2-polarized CD4+ naïve T cells 4 days activated with PMA (10ng/mL), Ionomycin (500ng/mL) and BFA (300ng/ml) for 4 hours.

Th1 unstimulated: Mouse Th1-polarized CD4+ naïve T cells for 4 days.

Th1 stimulated: Mouse Th1-polarized CD4+ naïve T cells for 4 days activated with PMA (10ng/mL), Ionomycin (500ng/mL) and BFA (300ng/ml) for 4 hours.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Flow Cytometry (Intracellular) - Anti-IL-13 antibody [EPR27282-114] (ab325325)

IL-13 Flow Cytometry (Intracellular) staining using rabbit Anti-IL-13 antibody

Flow cytometric analysis of Enriched mouse CD4+ T cells were cultured under Th1-polarizing conditions for 4 days then treated with 10ng/mL PMA, 500ng/mL Ionomycin and 300ng/ml BFA for 4 hours (Lower left and right); Enriched mouse CD4+ T cells were cultured under Th1-polarizing conditions for 4 days (Upper left and right) cells labelling IL-13 with ab325325 at 1/5000 dilution (0.01ug) / Upper right and Lower right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.
Cells were co-stained with anti-IFN-g antibody conjugated to APC.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.