abcam

ab186716

FITC Anti-IL-4 antibody [CC303]

Anti-IL-4 antibody [CC303] conjugated to FITC - suitable for flow cytometry, and reacts with cattle, dog, horse, goat and other samples. Clone [CC303] is a mouse monoclonal antibody cited in 20 publications.

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Key facts

Isotype	IgG2a
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Clone number	CC303
Purification technique	Affinity purification Protein G
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	ab186716 was prepared by affinity chromatography on Protein G from tissue culture supernatant.

Reactivity data

Flow Cyt

Expected

Species	Pig
Dilution info	-
Notes	Membrane permeabilization is required for this application. ab91362 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Species	Dog
Dilution info	-
Notes	Membrane permeabilization is required for this application. ab91362 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Species	Mink
Dilution info	-
Notes	Membrane permeabilization is required for this application. ab91362 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Species	Dolphin
Dilution info	-
Notes	Membrane permeabilization is required for this application. ab91362 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Species	Horse
Dilution info	-
Notes	Membrane permeabilization is required for this application. ab91362 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Species	Cow
Dilution info	-
Notes	Membrane permeabilization is required for this application. ab91362 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Species	Goat
Dilution info	-
Notes	Membrane permeabilization is required for this application. ab91362 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Species	Sheep
Dilution info	-

Notes	Membrane permeabilization is required for this application. ab91362 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target data

See full target information IL4

Function	Cytokine secreted primarily by mast cells, T-cells, eosinophils, and basophils that plays a role in regulating antibody production, hematopoiesis and inflammation, and the development of effector T-cell responses (PubMed:1993171, PubMed:3016727). Induces the expression of class II MHC molecules on resting B-cells. Enhances both secretion and cell surface expression of IgE and IgG1 (PubMed:1993171). Also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes (PubMed:2521231). Positively regulates IL31RA expression in macrophages. Stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and through the induction of RUFY4. In addition, plays a critical role in higher functions of the normal brain, such as memory and learning (By similarity). Upon binding to IL4, IL4R receptor dimerizes either with the common IL2R gamma chain/IL2RG to produce the type 1 signaling complex, located mainly on hematopoietic cells, or with the IL13RA1 to produce the type 2 complex, which is also expressed on nonhematopoietic cells (PubMed:10219247, PubMed:11526337, PubMed:18243101). Engagement of both types of receptors initiates JAK3 and to a lower extend JAK1 phosphorylation leading to activation of the signal transducer and activator of transcription 6/STAT6 (PubMed:7721895).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark

Notes

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

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.

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Terms & Conditions.

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