

CD152 (CTLA-4) Monoclonal Antibody (UC10-4B9), Biotin, eBioscience

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Biotin, eBioscience
Class	Monoclonal
Type	Antibody
Clone	UC10-4B9
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466619

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	5 Publications

Product Specific Information

Description: The UC10-4B9 monoclonal antibody reacts with mouse CD152, also known as the cytotoxic T lymphocyte antigen-4 (CTLA-4). CTLA-4, a protein with structural similarities to CD28, is expressed on activated T cells at low level and binds the B7 family members, CD80 (B7-1) and CD86 (B7-2), with higher affinity than CD28 does. CTLA-4 and CD28 appear to deliver opposing signals to T cells: while CD28 is a potent costimulator, CTLA-4 restricts the progression of T cells to an activated state by inhibiting IL-2 secretion and cellular proliferation. The cytoplasmic portion of CTLA-4 contains ER retention motifs, resulting in a large proportion of newly synthesized CTLA-4 in response to TCR signaling to be localized intracellularly.

Furthermore, due to the intracellular localization of a large portion of CTLA-4, for complete detection it may be necessary to assess intracellular expression, in addition to surface expression of CTLA-4.

Applications Reported: The UC10-4B9 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The UC10-4B9 antibody has been tested by flow cytometric analysis of resting and activated mouse splenocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Furthermore, due to the intracellular localization of a large portion of CTLA-4, for complete detection it may be necessary to assess intracellular expression, in addition to surface expression of CTLA-4.

Filtration: 0.2 µm post-manufacturing filtered.

5 References

Flow Cytometry (5)

British journal of pharmacology

Cambogin suppresses dextran sulphate sodium-induced colitis by enhancing Treg cell stability and function.

"Published figure using CD152 (CTLA-4) monoclonal antibody (Product # 13-1522-82) in Flow Cytometry"

Authors: Lu Y, Kim NM, Jiang YW, Zhang H, Zheng D, Zhu FX, Liang R, Li B, Xu HX

Species
Not Applicable

Dilution
Not Cited

Year
2018

Nature communications

Intratumoral modulation of the inducible co-stimulator ICOS by recombinant oncolytic virus promotes systemic anti-tumour immunity.

"Published figure using CD152 (CTLA-4) monoclonal antibody (Product # 13-1522-82) in Flow Cytometry"

Authors: Zamarin D, Holmgaard RB, Ricca J, Plitt T, Palese P, Sharma P, Merghoub T, Wolchok JD, Allison JP

Species
Mouse

Dilution
Not Cited

Year
2017

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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