

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
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	15 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.

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Filtration: 0.2 µm post-manufacturing filtered.

15 References

Flow Cytometry (15)

Theranostics	Year 2023
HSF1 promotes CD69⁺ Treg differentiation to inhibit colitis progression. "Published figure using CD152 (CTLA-4) monoclonal antibody (Product # 13-1522-82) in Flow Cytometry" Authors: Yu L,Zhou B,Zhu Y,Li L,Zhong Y,Zhu L,Wang H,Chen H,Xu J,Guo T,Feng L,Wang X,Cai Z,Wang J,Jin H	
Frontiers in immunology	Year 2023
CARD11 gain-of-function mutation drives cell-autonomous accumulation of PD-1⁺ ICOS^{high} activated T cells, T-follicular, T-regulatory and T-follicular regulatory cells. "Published figure using CD152 (CTLA-4) monoclonal antibody (Product # 13-1522-82) in Flow Cytometry" Authors: Masle-Farquhar E,Jeelall Y,White J,Bier J,Deenick EK,Brink R,Horikawa K,Goodnow CC	

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

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