

CD152 (CTLA-4) Monoclonal Antibody (UC10-4B9), APC, 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), APC, eBioscience |
| Class | Monoclonal |
| Type | Antibody |
| Clone | UC10-4B9 |
| Conjugate | APC |
| Form | Liquid |
| Concentration | 0.2 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_2016700 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|-----------------|
| Flow Cytometry (Flow) | 1 µg/Test | 20 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: This UC10-4B9 antibody has been reported for use in flow cytometric analysis, and intracellular staining followed by flow cytometric analysis.

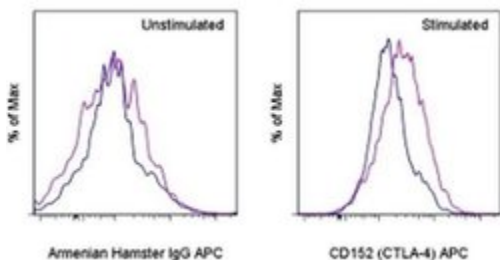
Applications Tested: This UC10-4B9 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Please refer to Best Protocols: Protocol B: One step protocol for (nuclear) intracellular proteins located under the Resrouce Tab online. This can be used at less than or equal to 1 µg per million cells in a 100 µL total staining volume. It is recommended that the antibody be

carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD152 (CTLA-4) Monoclonal Antibody (UC10-4B9), APC, eBioscience



CD152 (CTLA-4) Antibody (17-1522-82) in Flow

C57Bl/6 splenocytes were unstimulated (left) or stimulated with Con A for 3 days (right). Cells were intracellularly stained with Anti-Mouse CD4 eFluor® 450 (Product # 48-0041-82) and with 0.5 µg of Armenian Hamster IgG Isotype Control APC (Product # 17-4888-82) (blue histogram) or 0.5 µg of Anti-Mouse CD152 (CTLA-4) APC (purple histogram) using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Cells in the CD4+ gate were used for analysis.

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20 References

Flow Cytometry (20)

Journal of leukocyte biology

Active players in resolution of shock/sepsis induced indirect lung injury: immunomodulatory effects of Tregs and PD-1.

"17-1522 was used in Flow cytometry/Cell sorting to explore the ability of Tregs to modify the innate immune response induced by experimental iALI."

Authors: Tang L,Bai J,Chung CS,Lomas-Neira J,Chen Y,Huang X,Ayala A

Species
Mouse

Dilution
Not Cited

Year
2014

Stem cell research & therapy

CD117⁺CD44⁺ Stem T Cells Develop in the Thymus and Potently Suppress T-cell Proliferation by Modulating the CTLA-4 Pathway.

"17-1522 was used in Flow cytometry/Cell sorting to suggest that CD44⁺CD117⁺ T cells are stem cells and a specific T-cell phenotype that initially develops in the thymus, but they do not progress through DN3 and DN4 stages, lack a DP stage, and potently suppress T-cell proliferation and modulate the CTLA-4 pathway."

Authors: Wei Y,Hu Z,Gu W,Liu G,Shi B,Liu E,Liu T

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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