



CD152 (CTLA-4) Monoclonal Antibody (14D3), PerCP-eFluor™ 710, eBioscience™

| Product Details | | |
|--------------------------------|--|--|
| Size | 100 Tests | |
| Species Reactivity | Human, Rhesus monkey | |
| Published Species | Mouse, Human, Rhesus monkey | |
| Host/Isotype | Mouse / IgG2a, kappa | |
| Recommended Isotype Control | Mouse IgG2a kappa Isotype Control (eBM2a), PerCP-eFluor™ 710, eBioscience™ | |
| Class | Monoclonal | |
| Туре | Antibody | |
| Clone | 14D3 | |
| Conjugate | PerCP-eFluor™ 710 | |
| Excitation/Emission Max | 482/708 nm | |
| Form | Liquid | |
| Concentration | 5 μL/Test | |
| Purification | Affinity chromatography | |
| Storage buffer | PBS, pH 7.2, with 0.2% BSA | |
| Contains | 0.09% sodium azide | |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! | |
| RRID | AB_2573718 | |

| Applications | Tested Dilution | Publications |
|-----------------------|---------------------|-----------------|
| Flow Cytometry (Flow) | 5 μL (0.03 μg)/test | 13 Publications |

Product Specific Information

Description: The 14D3 monoclonal antibody reacts with human CD152, also known as cytotoxic T lymphocyte antigen-4 (CTLA-4). CTLA-4, a protein with structural similarities to CD28, is expressed on activated T cells (activated B cells may also express CTLA-4) 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 intracellular localization of a large proportion of newly synthesized CTLA-4 in response to TCR signaling.

The 14D3 antibody also recognizes rhesus monkey and has inhibitor activity.

Applications Reported: This 14D3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 14D3 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated human peripheral blood cells using the Intracellular Fixation & Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol for (cytoplasmic) intracellular proteins located under the Resources Tab online. This can be used at 5 µL (0.03 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 10^5 to 10^8 cells/test.

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.

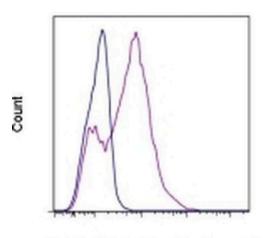
PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD152 (CTLA-4) Monoclonal Antibody (14D3), PerCP-eFluor™ 710, eBioscience™



CD152 (CTLA-4) Antibody (46-1529-42) in Flow

PHA-stimulated human peripheral blood cells were intracellularly stained with Mouse IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4724-82) (blue histogram) or Anti-Human CD152 (CTLA-4) PerCP-eFluor® 710 (purple histogram) using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Cells in the lymphocyte gate were used for analysis.

CD152 (CTLA-4) PerCP-eFluor 710

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□ 13 References

Flow Cytometry (13)

Journal for immunotherapy of cancer

Cancer stem-like cells evade CD8⁺CD103⁺ tumor-resident memory T (T _{RM}) lymphocytes by initiating an epithelial-to-mesenchymal transition program in a human lung tumor model.

"Published figure using CD152 (CTLA-4) monoclonal antibody (Product # 46-1529-42) in Flow Cytometry" Authors: Corgnac S,Damei I,Gros G,Caidi A,Terry S,Chouaib S,Deloger M,Mami-Chouaib F

Year 2022

Journal of autoimmunity

Role of the thymus in spontaneous development of a multi-organ autoimmune disease in human immune system mice.

"46-1529-42 was used in Flow cytometry/Cell sorting to evaluate the role of the thymus in development of multi-organ autoimmunity in human immune system (HIS) mice."

Authors: Khosravi-Maharlooei M,Li H,Hoelzl M,Zhao G,Ruiz A,Misra A,Li Y,Teteloshvili N,Nauman G,Danzl N,Ding X, Pinker EY,Obradovic A,Yang YG,luqa A,Creusot RJ,Winchester R,Sykes M

Year 2021

Species Mouse

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