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## Anti-Mouse CD152 (CTLA-4) PE

Catalog Number: 12-1522

Also Known As:CTLA4

RUO: For Research Use Only. Not for use in diagnostic procedures.

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### Product Information

**Contents:** Anti-Mouse CD152 (CTLA-4) PE


 **Catalog Number:** 12-1522

**Clone:** UC10-4B9

**Concentration:** 0.2 mg/mL


**Host/Isotype:** Armenian Hamster IgG

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

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### 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 splenocyte suspensions. This can be used at less than or equal to 0.25 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

June, C.H., J.A. Bluestone, L.M. Nadler and C.B. Thompson (1994) The B7 and CD28 receptor families. *Immunol Today* 15: 231-331.

Krummel, M. F. and J. P. Allison (1995). CD28 and CTLA-4 have opposing effects on the response of T cells to stimulation. *J Exp Med* 182(2): 459-65.

Walunas, T. L., D. J. Lenschow, et al. 1994. CTLA-4 can function as a negative regulator of T cell activation. *Immunity* 1(5): 405-13.

### Related Products

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

12-4888 Armenian Hamster IgG Isotype Control PE (eBio299Arm)

17-5773 Anti-Mouse/Rat Foxp3 APC (FJK-16s)

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