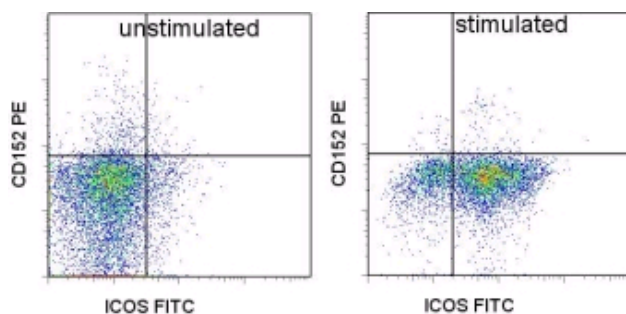


## Anti-Rat CD152 (CTLA-4) PE

Catalog Number: 12-1520

Also Known As: CTLA4

RUO: For Research Use Only



Staining of unstimulated (left) and 3-day ConA-stimulated (right) rat splenocytes with Anti-Mouse/Rat CD278 (ICOS) FITC (cat. 11-9949) and 0.5 µg of Anti-Rat CD152 (CTLA-4) PE. Total viable cells were used for analysis.

### Product Information

Contents: Anti-Rat CD152 (CTLA-4) PE


**REF** Catalog Number: 12-1520

Clone: WKH203


Concentration: 0.2 mg/ml


Host/Isotype: Mouse IgG1

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.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The WKH203 monoclonal antibody reacts with rat 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 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.

### Applications Reported

The WKH203 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This WKH203 antibody has been tested by flow cytometric analysis of unstimulated and ConA-activated (3 days) rat splenocyte suspensions. 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 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.

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.

### References

Lin CH, Hunig T. (2003) Efficient expansion of regulatory T cells in vitro and in vivo with a CD28 superagonist. *Eur J Immunol.* 33(3):626-38.

Elflein K, Rodriguez-Palmero M, Kerkau T, Hünig T. (2003) Rapid recovery from T lymphopenia by CD28 superagonist therapy. *Blood*, 102 (5):1764-1770.

### Related Products

12-4714 Mouse IgG1 K Isotype Control PE

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