

**anti-rat CD152****Cat-No.: R32141****0.1 mg****Clone:** WKH 203**Specificity:**

The anti-rat CD 152 monoclonal antibody is specific for the cytotoxic T lymphocyte-associated protein 4 (CTLA-4), also called CD152. This antigen is known to be the receptor for B7 ligands (CD80 and CD86) present on antigen presenting cells. A subset of CD4 T cells expressing CD25 and CTLA-4 has been recognized as a potent suppressor cell population, counteracting autoimmunity and inflammation. These "regulatory" T cells which produce the anti-inflammatory cytokine interleukin-10 but not interleukin-2, are able to suppress the proliferation of costimulated CD25-negative indicator cells. The capacity of these naturally occurring regulatory T cells to suppress autoimmunity and inflammation suggests that therapies which activate and expand this subset could become extremely effective treatments for these immunopathological disorders.

This clone has been tested in flow cytometry. In rats, the constitutive expression of CTLA-4 at the level detectable by flow cytometry is restricted to the CD25+ subset of CD4 T cells and thymocytes.

**Isotype subclass:** Mouse IgG 1**Form:** Purified**Physical state:** Liquid**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.4).**Expiration date:** The reagent is stable until the expiry date stated on the vial label.**Storage conditions:** For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.**Application:** Flow Cytometry**References:**

- 1) Elfein, K., Rodrigues-Palermo, M., Kerkau, T., and T. Huning. (2003) Immunobiology. 102, 1764-1770. Rapid recovery from T lymphopenia by CD28 superagonist therapy.
- 2) Lin, C.-H., and T. Huning (2003) Eur. J. Immunol. 33, 626-638. Efficient expansion of regulatory T cells in vitro and in vivo with a CD 28 superagonist.

**Warning:**

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink, and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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