

**Anti-Mouse CD152 (CTLA-4),
Clone UC10-4F10-11, PE**



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Antibodies

Hamster (Armenian) monoclonal IgG1
antibody against mouse CD152 (CTLA-4),
PE-conjugated

Catalog #100-0323
Catalog #100-0324

25 µg 0.2 mg/mL
100 µg 0.2 mg/mL

Product Description

The UC10-4F10-11 antibody reacts with an extracellular epitope on mouse CD152 (CTLA-4), a type I transmembrane glycoprotein receptor expressed on the surface of activated T and B cells and thymocytes. CD152 comprises a disulfide-linked homodimer of ~35 kDa subunits and is a member of the immunoglobulin protein superfamily. It functions as an antagonistic homolog of CD28 by binding the CD28 co-stimulatory ligands, CD80 and CD86. CD152 thereby acts to inhibit CD28-mediated stimulation during the early stages of T cell expansion. It also contributes to the suppressor function of T regulatory cells. CD152 has important roles in immunological tolerance and immunity, and mutations in its cognate gene have been associated with certain autoimmune disorders.

| | |
|----------------------|--|
| Target Antigen Name: | CD152 (CTLA-4) |
| Alternative Names: | CTLA-4, Cytotoxic T lymphocyte-associated antigen-4, Ly-56 |
| Gene ID: | 12477 |
| Species Reactivity: | Mouse |
| Host Species: | Hamster (Armenian) |
| Clonality: | Monoclonal |
| Clone: | UC10-4F10-11 |
| Isotype: | IgG1, kappa |
| Immunogen: | Mouse CTLA-4 IgG2a fusion protein |
| Conjugate: | PE (Phycoerythrin) |

Applications

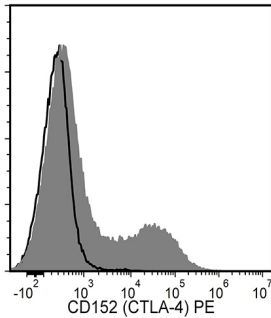
| | |
|-----------|----|
| Verified: | FC |
| Reported: | FC |

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

| | |
|------------------------|---|
| Formulation: | Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.1% gelatin |
| Purification: | The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE. |
| Stability and Storage: | Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. Stable until expiry date (EXP) on label. |
| Directions for Use: | For flow cytometry, the suggested use of this reagent is $\leq 0.06 \mu\text{g}$ per 1×10^6 cells in 100 μL . It is recommended that the antibody be titrated for optimal performance for each application. |

Data



Flow cytometry analysis of 3-day Con A-stimulated C57BL/6 mouse splenocytes labeled with Anti-Mouse CD152 (CTLA-4) Antibody, Clone UC10-4F10-11, PE (filled histogram) or an Armenian hamster IgG, PE isotype control antibody (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

1. Yasuda K et al. (2019) Satb1 regulates the effector program of encephalitogenic tissue Th17 cells in chronic inflammation. *Nat Commun* 10(1): 549. (FC)
2. Rizzo A et al. (2018) ROR γ t-expressing Tregs drive the growth of colitis-associated colorectal cancer by controlling IL6 in dendritic cells. *Cancer Immunol Res* 6(9): 1082–92. (FC)
3. Kishore M et al. (2017) Regulatory T cell migration is dependent on glucokinase-mediated glycolysis. *Immunity* 47(5): 875–89.e10. (FA/Activation)
4. Iraolagoitia XLR et al. (2016) NK cells restrain spontaneous antitumor CD8+ T cell priming through PD-1/PD-L1 interactions with dendritic cells. *J Immunol* 197(3): 953–61. (FC)

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