

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



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## Antibodies

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

Catalog #100-0327

100 µg 0.5 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:	Unconjugated

## Applications

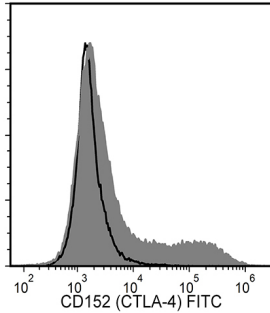
Verified:	FC
Reported:	FA, FC, IP

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
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Stable until expiry date (EXP) on label.
Directions for Use:	For flow cytometry, the suggested use of this reagent is $\leq 0.2 \mu\text{g}$ per $1 \times 10^6$ cells in 100 $\mu\text{L}$ . 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, followed by a goat anti-Armenian hamster IgG antibody, FITC (filled histogram) or an Armenian hamster IgG isotype control antibody, followed by a goat anti-Armenian hamster IgG, FITC (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](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

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2. Rizzo A et al. (2018) ROR $\gamma$ 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)
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