

Anti-Mouse CD152-154Sm

Catalog #: 3154008B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Cross Reactivity: Mouse

Clone: UC10-4B9

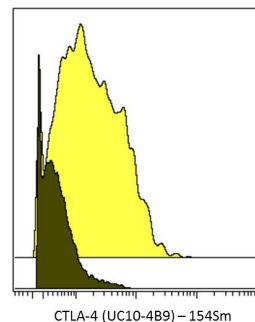
Isotype: Hamster IgG

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Mouse splenocytes were unstimulated (bottom) or stimulated with ConA and recombinant mouse IL-2 (top) for 3 days and then stained with 154Sm-anti-CTLA-4 (UC10-4B9). Total viable T cells are displayed in the analysis.

Description

CD152, also known as CTLA-4, is a key molecule that functions to inhibit activation of T cells and antigen-presenting cells (APCs). CD152 is a glycoprotein with structural similarities to CD28, in that it shares 20% sequence homology including the ligand-binding motif MYPP. Similar to CD28, CD152 binds CD80 (B7-1) and CD86 (B7-2), but with higher affinity than CD28. CTLA-4 appears to inhibit immune responses by several mechanisms and is a critical mediator of peripheral tolerance. Thus, CTLA-4 has a central and pivotal role in the maintenance of peripheral tolerance. The cytoplasmic domain of CTLA-4 includes ER retention motifs, which results in intracellular accumulation of newly synthesized CTLA-4.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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