

Anti-Human CD152-170Er

Catalog #: 3170005B

Package Size: 100 tests

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

Cross Reactivity: Human

Clone: 14D3

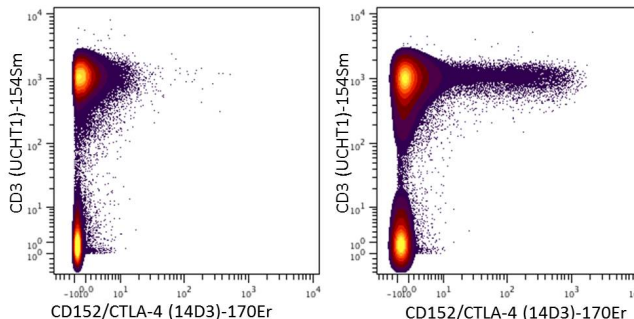
Isotype: Mouse IgG2a

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.



Human PBMCs were incubated for 6 hours in media alone (left) or with PMA and ionomycin (right). Cells were then fixed, permeabilized, and stained with 154Sm-anti-CD3 (UCHT1) and 170Er-anti-CD152 [CTLA-4] (14D3).

Description

Cytotoxic T Lymphocyte-associated Antigen-4 (CTLA-4, CD152) is a member of the immunoglobulin superfamily and is expressed on activated T cells. CTLA-4 is a co-inhibitory molecule that functions to inhibit T cell activation by binding its ligands CD80 (B7.1) and CD86 (B7.2), which it does with higher affinity than the co-stimulatory molecule CD28. Antibodies that block the interaction of CTLA-4 with its ligands B7.1 and B7.2, including ipilimumab and tremelimumab, can enhance immune responses, including anti-tumor immunity. Recent studies have shown that CTLA-4 is expressed by a subset of regulatory T cells (Tregs).

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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