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**Anti-Human CTLA-4 (CD152)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL7650AP	Purified	250ug	1.0 mg/ml	CLCMG2A00
CL7650F	FITC	100ug	0.1 mg/ml	CLCMG2A01
CL7650AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Mouse IgG_{2aκ}

DESCRIPTION:

Human CTLA-4 (also known as Cytotoxic T lymphocyte-associated antigen-4, CD152) is a structural homologue of T cell co-stimulatory receptor CD28. CTLA-4 binds to the same ligands (CD80 and CD86) as CD28 but with much higher avidity. It is expressed at very low levels on the cell surface of activated T cells, and is found primarily in the post-Golgi or endosomal compartments of the cell.

There is a high degree of overall homology between human and mouse CTLA-4 (>70%), and the cytoplasmic domains of the human, mouse and rabbit sequences are completely conserved. CD152 antibodies have shown both stimulatory and negative regulatory roles in functional experiments.

This antibody is suitable for use in flow cytometry.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

FITC and AF488: FITC and AF488 conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **AF488** conjugates. For long term storage (**Purified** and **FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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SPECIFICATIONS:

Clone: A3.4H2.H12

Hybridoma Production:

Immunization:

Immunogen: Activated T cells

Donor: Balb/c mouse

Fusion Partner: SP 2/0 myeloma

Specificity: Human CTLA-4 (CD152)

Ig Class: Mouse IgG_{2a}K

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell concentration: 1x10⁶ cells per tests

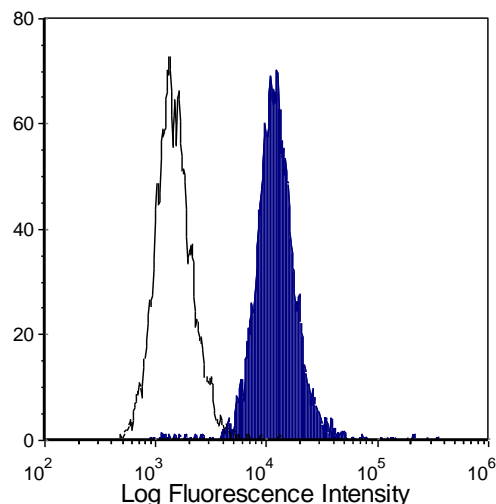
Antibody Concentration Used: 1.0 µg/10⁶ cells

Cell Source

Activated Human T cells (fix and perm)

Percentage of cells stained above control:

98%



3 day con-A activated human T-cell blasts (fixed and permeabilized) were stained with anti-CTLA-4 (CD152) (clone: A3.4H2.H12) (filled histogram) or mouse IgG_{2a} isotype control (open histogram).

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

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