

Product datasheet for **AM31866FC-N**

CTLA4 Mouse Monoclonal Antibody [Clone ID: A3.4H2.H12]

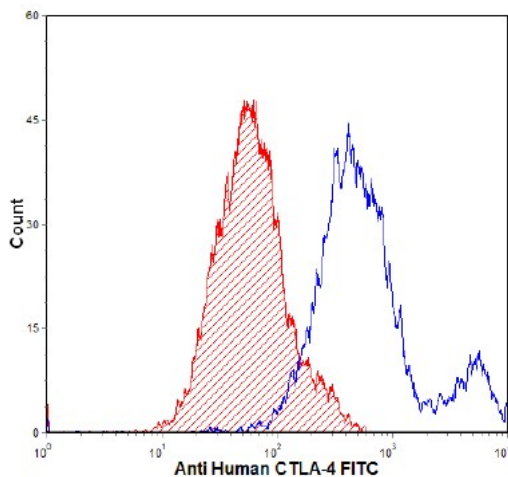
Product data:

Product Type:	Primary Antibodies
Clone Name:	A3.4H2.H12
Applications:	FC
Recommended Dilution:	Intracellular Flow Cytometry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Activated T cells <u>Donor:</u> Balb/c mouse <u>Fusion Partner:</u> SP 2/0 myeloma
Specificity:	Recognizes Human CTLA-4 (CD152). Other species not tested.
Formulation:	PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: FITC State: Liquid purified Ig fraction Label: Fluorescein isothiocyanate isomer 1
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	FITC
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cytotoxic T-lymphocyte associated protein 4
Database Link:	<u>Entrez Gene 1493 Human P16410</u>



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Background:	<p>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.</p> <p>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.</p>
Synonyms:	CTLA-4
Note:	<p>Protocol: FLOW CYTOMETRY ANALYSIS:</p> <ol style="list-style-type: none">1. Prepare cell suspension in Media A. For cell preparations, deplete the red blood cell population with Lympholyte®-H cell separation medium.2. Wash 2 times.3. Resuspend the cells to a concentration of 2×10^7 cells/ml in media A. Add 50 μl of this suspension to each tube (each tube will then contain 1×10^6 cells, representing 1 test).4. Fix and permeabilize cells.5. To each tube, add 1.0 μg of this antibody per 10^6 cells.6. Vortex the tubes to ensure thorough mixing of antibody and cells.7. Incubate the tubes for 30 minutes at 4°C. (It is recommended that the tubes are protected from light, since most fluorochemicals are light sensitive.)8. Wash 2 times at 4°C.9. Resuspend the cell pellet in 50 μl ice cold media B.10. Transfer to suitable tubes for flow cytometric analysis containing 15 μl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA. <p>Media:</p> <p>A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 μl of 2M sodium azide in 100 mls).</p> <p>B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 μl of 2M sodium azide in 100 mls).</p> <p>Results:</p> <p>Tissue Distribution by Flow Cytometry Analysis: Cell Concentration: 1×10^6 cells per test Antibody Concentration Used: 1.0 μg/10^6 cells Isotypic Control (shaded): FITC Mouse IgG2</p>
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Autoimmune thyroid disease, Cell adhesion molecules (CAMs), T cell receptor signaling pathway

Product images:

Cell Source: Human IL2 Activated T-Blasts
Percentage of cells stained above control: 72.0%
Cells were fixed and permeabilized prior to staining