

Product datasheet for **AM31866PU-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: | Flow Cytometry. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Activated T cells from Balb/c mouse. Fusion Partner: SP 2/0 myeloma. |
| Specificity: | Recognizes Human CTLA-4 (CD152). Other species not tested. |
| Formulation: | PBS containing 0.02% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction |
| Concentration: | lot specific |
| Purification: | Affinity Chromatography on Protein G |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | cytotoxic T-lymphocyte associated protein 4 |
| Database Link: | Entrez Gene 1493 Human P16410 |



[View online »](#)

| | |
|--------------------------|--|
| 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 cells to 1x10⁶ cells in approximately 50 µl Media A in a microcentrifuge tube (i.e. 50 µl of cells resuspended to 2x10⁷ cells/ml). (the contents of 1 tube represent 1 test).4. To each tube add 1.0 µg of this antibody per 10⁶ cells.5. Vortex the tubes to ensure thorough mixing of antibody and cells.6. Incubate the tubes for 30 minutes at 4°C.7. Wash 2 times at 4°C.8. Add 100 µl of secondary antibody (FITC Goat anti-mouse IgG (H+L)) at 1/500 dilution.9. Incubate tubes at 4°C for 30-60 minutes. (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).10. Wash 2 times at 4°C in Media B.11. Resuspend the cell pellet in 50 µl ice cold Media B.12. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in phosphate buffered saline. (This stains dead cells by intercalating 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> |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Autoimmune thyroid disease, Cell adhesion molecules (CAMs), T cell receptor signaling pathway |