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# Product datasheet for TA810204BM

## CTLA4 Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI8F1]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | OTI8F1 |
| **Applications:** | FC, WB |
| **Recommended Dilution:** | WB 1:500 |
| **Reactivity:** | Human |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Full length human recombinant protein of human CTLA4 (NP_001032720) produced in HEK293T cell. |
| **Formulation:** | PBS (pH 7.3) containing 1% BSA, 50% glycerol. |
| **Concentration:** | 0.5 mg/ml |
| **Purification:** | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| **Conjugation:** | HRP |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Predicted Protein Size:** | 15 kDa |
| **Gene Name:** | cytotoxic T-lymphocyte associated protein 4 |
| **Database Link:** | NP_001032720<br>Entrez Gene 1493 Human<br>P16410 |

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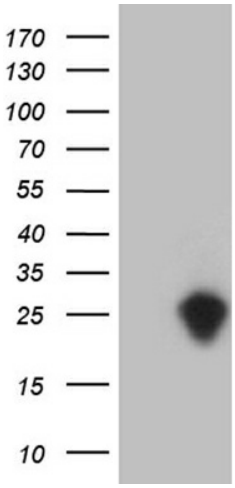
**Background:** This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases. [provided by RefSeq, Jul 2008]

**Synonyms:** ALPS5; CD; CD152; CELIAC3; CTLA-4; GRD4; GSE; IDDM12

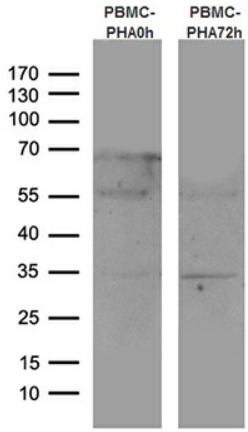
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Autoimmune thyroid disease, Cell adhesion molecules (CAMs), T cell receptor signaling pathway

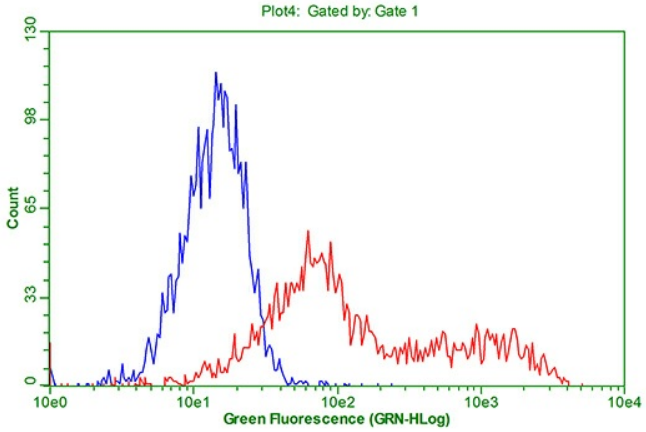
## Product images:



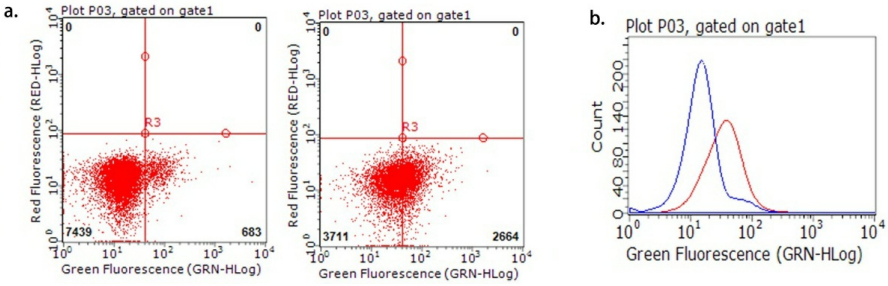

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CTLA4 (Cat# [RC213631], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CTLA4 (Cat# [TA810204])(1:500). Positive lysates [LY421970] (100ug) and [LC421970] (20ug) can be purchased separately from OriGene.




Western blot analysis of human peripheral blood mononuclear cells (PBMCs) by using anti-CTLA4 monoclonal antibody. Left: Unstimulated PBMC. Right: PBMC stimulated with 10ug/ml Phytohemagglutinin for 3 days (1:100).




HEK293T cells transfected with either CTL4 ([RC210150]) plasmid (red) or empty vector control plasmid (blue).The cells were immunostained by anti-CTLA4 antibody and analyzed by flow cytometry (1:100).




Flow cytometric analysis of CTLA4 expression on stimulated human peripheral blood mononuclear cells (PBMC). Unstimulated PBMC, (a.left, b.blue), or 10ug/ml Phytohemagglutinin-stimulated (3 days) PBMC, (a.right, b.red), were stained with Anti-Human CTLA4 antibody ([TA810204]) (1:100).