

## Product datasheet for **TA813089M**

### **B7-2 (CD86) Mouse Monoclonal Antibody [Clone ID: OTI3B10]**

#### **Product data:**

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI3B10   |
| Applications:           | FC, WB  |
| Recommended Dilution:   | WB 1:1000, FLOW 1:100   |
| Reactivity:             | Human   |
| Host:                   | Mouse   |
| Isotype:                | IgG2a   |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human CD86 (NP_787058) produced in HEK293T cell.                 |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                      |
| Concentration:          | 1 mg/ml   |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation:            | Unconjugated  |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 38.1 kDa  |
| Gene Name:              | CD86 molecule   |
| Database Link:          | <a href="#">NP_787058</a><br><a href="#">Entrez Gene 942 Human</a><br><a href="#">P42081</a>              |

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**Background:**

This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in several transcript variants encoding different isoforms. [provided by RefSeq, May 2011]

**Synonyms:**

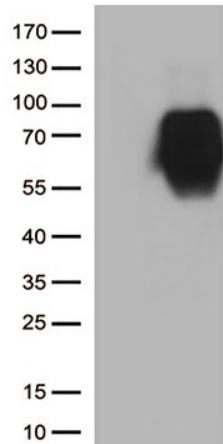
B7-2; B7.2; B70; CD28LG2; LAB72

**Protein Families:**

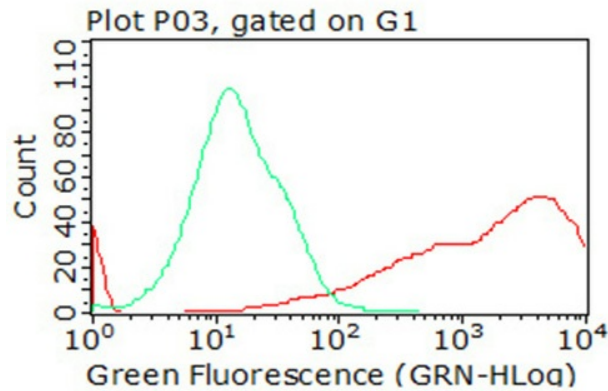
Druggable Genome, Transcription Factors, Transmembrane

**Protein Pathways:**

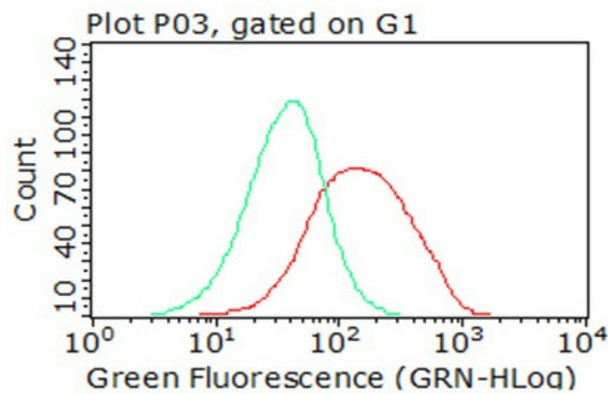
Allograft rejection, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, Toll-like receptor signaling pathway, Type I diabetes mellitus, Viral myocarditis

**Product images:**


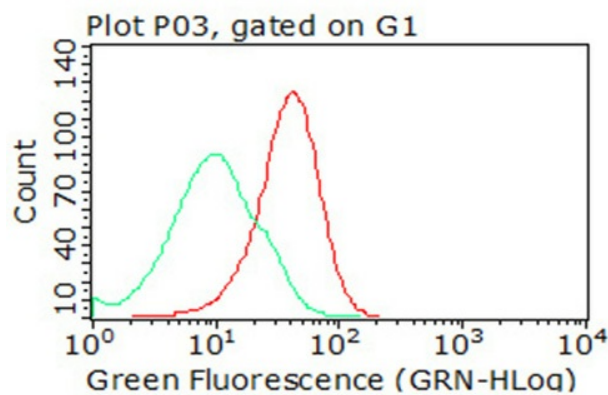
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD86 ([RC217341], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD86 (1:1000).



Flow cytometric analysis of living 293T cells transfected with CD86 overexpression plasmid ([RC217341], Red) using anti-CD86 antibody ([TA813089]). Cells incubated with a non-specific antibody (Green) were used as isotype control (1:100).



Flow cytometric analysis of living Raji cells, using anti-CD86 antibody ([TA813089], Red), compared to an isotype control (green) (1:100).



Flow cytometric analysis of living Ramos cells, using anti-CD86 antibody ([TA813089], Red), compared to an isotype control (green) (1:100).