

## Product datasheet for **TA800532M**

### CD4 Mouse Monoclonal Antibody [Clone ID: OTI6B7]

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI6B7  |
| Applications:           | FC, IHC, WB   |
| Recommended Dilution:   | WB 1:2000, IHC 1:150  |
| Reactivity:             | Human   |
| Host:                   | Mouse   |
| Isotype:                | IgG2b   |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human CD4 (NP_000607) 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: | 48.3 kDa  |
| Gene Name:              | CD4 molecule  |
| Database Link:          | <a href="#">NP_000607</a><br><a href="#">Entrez Gene 920 Human</a><br><a href="#">P01730</a>              |



[View online »](#)

|                          |   |
|--------------------------|---|
| <b>Background:</b>       | This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene. [provided by RefSeq, Aug 2010] |
| <b>Synonyms:</b>         | CD4mut; IMD79; OKT4D  |
| <b>Protein Families:</b> | Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane  |
| <b>Protein Pathways:</b> | Antigen processing and presentation, Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway  |

### Product images:

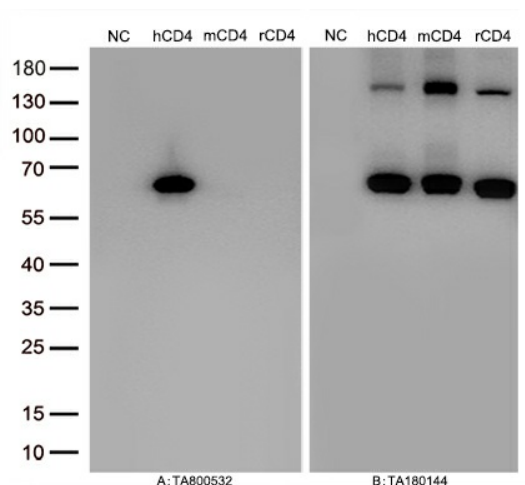
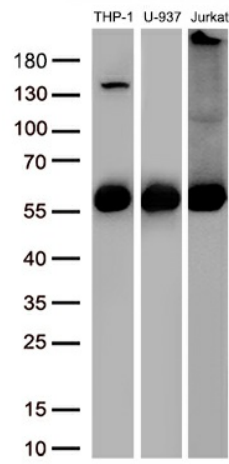
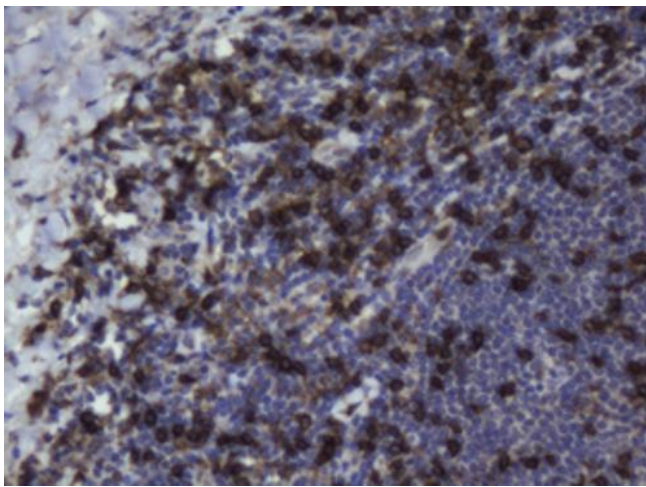


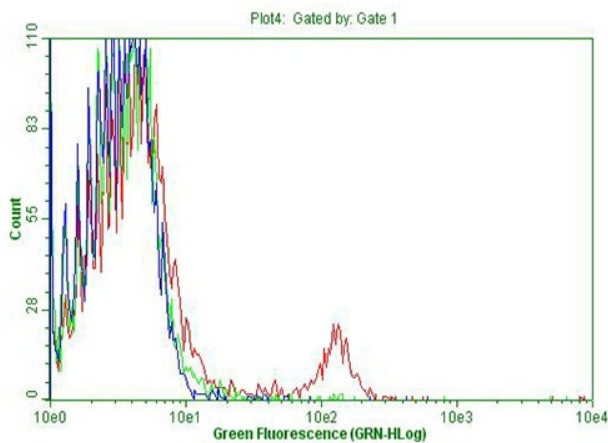
Figure A, Western blot analysis of overexpressed lysates (5ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human CD4 plasmid ([RC206453], hCD4), mouse CD4 plasmid ([MR226754], mCD4), rat CD4 plasmid ([RR210599], rCD4) using anti-CD4 antibody [TA800532] (1:20000@1mg/ml). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:20000@1mg/ml)



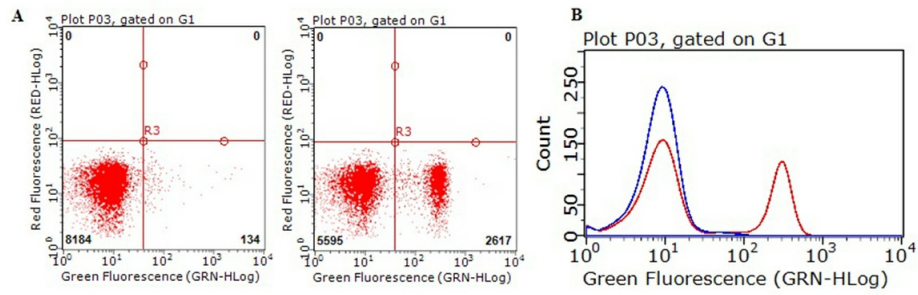
Western blot analysis of extracts (30ug per lane) from 3 different cell lines lysates by using anti-CD4 antibody([TA800532],1:1000@1mg/ml).



Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-CD4 mouse monoclonal antibody. ([TA800532]) Dilution: 1:150. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Flow cytometric Analysis of living RBC-lysed human peripheral blood cells, using anti-CD4 antibody ([TA800532], Red), compared to an IgG isotype control (green), and negative control (PBS, Blue) (1:100).



Flow cytometric Analysis of living human peripheral blood cells, using anti-CD4 antibody ([TA800532], A.right, B.red), compared to an IgG isotype control (A.left, B.blue) (1:100).