

## Product datasheet for **CF500479**

### CD4 Mouse Monoclonal Antibody [Clone ID: OTI4A11]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI4A11  |
| Applications:           | IF, WB   |
| Recommended Dilution:   | WB 1:200 - 1:1000, IF 1:100  |
| Reactivity:             | Human  |
| Host:                   | Mouse  |
| Isotype:                | IgG2a  |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human CD4 (NP_000607) produced in HEK293T cell.   |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| 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: | 51.1 kDa   |
| Gene Name:              | CD4 molecule   |
| Database Link:          | <a href="#">NP_000607</a><br><a href="#">Entrez Gene 920 Human P01730</a>  |
| Background:             | Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.  |



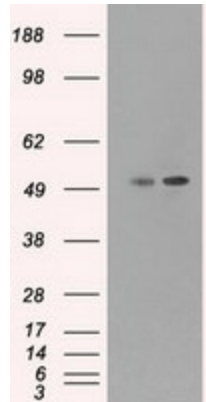
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**Synonyms:** CD4mut; IMD79; OKT4D

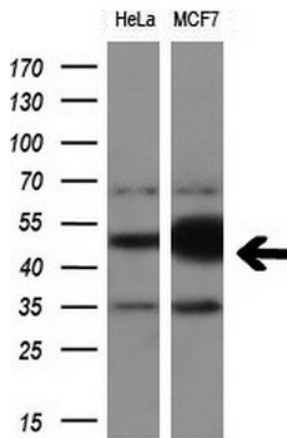
**Protein Families:** Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane

**Protein Pathways:** Antigen processing and presentation, Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway

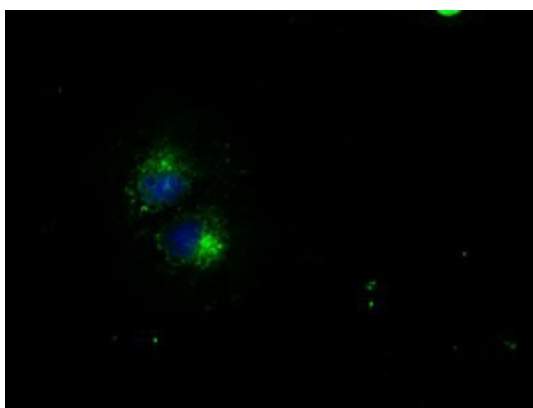
**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD4 ([RC206453], 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-CD4. Positive lysates [LY400209] (100ug) and [LC400209] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 2 different cell lines by using anti-CD4 monoclonal antibody at 1:200.



Anti-CD4 mouse monoclonal antibody ([TA500479]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CD4 ([RC206453]).