



# Anti-CD4 monoclonal antibody, clone RPA-T4 [R-PE] (CABT-45100MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Mouse anti human CD4 antibody, clone RPA-T4 recognizes human CD4, a 55kD cell surface glycoprotein that is primarily expressed on a subpopulation of T lymphocytes, on peripheral blood monocytes and on tissue macrophages. Epitope mapping studies have shown that antibodies, produced by clone RPA-T4, recognize an epitope within domain 1, of the extracellular region, of the CD4 molecule. Mouse anti human CD4 antibody, clone RPA-T4 has been reported to block gp120-CD4 interaction and inhibit syncytium formation. Flow Cytometry Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells or 100ul whole blood

|                           |                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------|
| <b>Specificity</b>        | CD4                                                                                           |
| <b>Immunogen</b>          | Human PHA blasts.                                                                             |
| <b>Isotype</b>            | IgG1                                                                                          |
| <b>Source/Host</b>        | Mouse                                                                                         |
| <b>Species Reactivity</b> | Human                                                                                         |
| <b>Clone</b>              | RPA-T4                                                                                        |
| <b>Conjugate</b>          | PE                                                                                            |
| <b>Applications</b>       | FC                                                                                            |
| <b>Format</b>             | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised                               |
| <b>Size</b>               | 100 tests                                                                                     |
| <b>Preservative</b>       | 0.09% Sodium Azide                                                                            |
| <b>Storage</b>            | Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. |

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

|                     |                                                                                                                                                                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name           | <a href="#">CD4 CD4 molecule [ Homo sapiens (human) ]</a>                                                                                                                                                                                                                                         |
| Official Symbol     | CD4                                                                                                                                                                                                                                                                                               |
| Synonyms            | CD4; CD4 molecule; CD4mut; T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); T-cell surface antigen T4/Leu-3;                                                                                                                                                                     |
| Entrez Gene ID      | <a href="#">920</a>                                                                                                                                                                                                                                                                               |
| Protein Refseq      | <a href="#">NP_000607</a>                                                                                                                                                                                                                                                                         |
| UniProt ID          | P01730                                                                                                                                                                                                                                                                                            |
| Chromosome Location | 12p13.31                                                                                                                                                                                                                                                                                          |
| Pathway             | Adaptive Immune System; Alpha-defensins; Antigen processing and presentation; Arf1 pathway; Binding and entry of HIV virion; C-MYB transcription factor network; CXCR4-mediated signaling events; Cell adhesion molecules (CAMs);                                                                 |
| Function            | MHC class II protein binding; coreceptor activity; enzyme binding; extracellular matrix structural constituent; glycoprotein binding; protein binding; protein homodimerization activity; protein kinase binding; receptor activity; transmembrane signaling receptor activity; zinc ion binding; |