



# Rabbit Anti-Human CD4 Monoclonal Antibody, clone CQ7139 (CABT-Z201R)

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

## PRODUCT INFORMATION

|                              |                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>             | Synthetic peptide corresponding to CD4 residues within aa200-300 of CD4 was used as an immunogen. |
| <b>Isotype</b>               | IgG                                                                                               |
| <b>Source/Host</b>           | Rabbit                                                                                            |
| <b>Species Reactivity</b>    | Human                                                                                             |
| <b>Clone</b>                 | CQ7139                                                                                            |
| <b>Purification</b>          | ProA affinity purified IgG.                                                                       |
| <b>Conjugate</b>             | Unconjugated                                                                                      |
| <b>Applications</b>          | IHC-P<br>Recommended concentration:<br>IHC-P: 1:100-1:200                                         |
| <b>Molecular Weight</b>      | 51 kDa                                                                                            |
| <b>Cellular Localization</b> | Membrane                                                                                          |
| <b>Positive Control</b>      | Tonsil                                                                                            |
| <b>Format</b>                | Liquid                                                                                            |
| <b>Concentration</b>         | Lot specific                                                                                      |
| <b>Size</b>                  | 100 µl                                                                                            |

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| <b>Buffer</b>       | PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%. |
| <b>Preservative</b> | 0.01% Sodium azide                                    |
| <b>Storage</b>      | Store at -20 °C. Avoid freeze/thaw cycles.            |
| <b>Ship</b>         | Wet ice                                               |

## BACKGROUND

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| <b>Introduction</b> | <p>The CD4 molecule is a glycoprotein, belonging to immunoglobulin superfamily that is associated with HLA class II antigen recognition. It is a co-receptor that assists the T-cell receptor (TCR) with an antigen-presenting cell and also interacts directly with MHC class II molecules on the surface of the antigen-presenting cells using its extracellular domain. In lymphatic tissues, the CD4+ T cells are seen in large numbers in the parafollicular zone, while scattered cells are found in the germinal centres and mantle zone. CD4 is also demonstrated in hepatic sinusoidal cells, monocytes and monocytes-derived cells but not expressed on B cells and immature thymocytes. Most mature T-cell lymphomas are CD4 positive with the exception of aggressive NK-cell leukaemia and extranodal NK/T-cell lymphomas: subcutaneous panniculitis-like T-cell lymphoma (which is usually CD8 positive), enteropathy-type T-cell lymphoma and hepatosplenic T-cell lymphoma. CD4 is also expressed in histiocytic sarcomas and Langerhans cell histiocytosis as well as in splenic littoral cell haemangioma.</p> <p>CD4 plays an important role in the classification of lymphocytes in inflammatory lesions and malignant lymphomas.</p> |
| <b>Keywords</b>     | CD4; T-cell surface glycoprotein CD4; cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## GENE INFORMATION

|                       |                        |
|-----------------------|------------------------|
| <b>Gene Name</b>      | CD4                    |
| <b>Entrez Gene ID</b> | <a href="#">920</a>    |
| <b>UniProt ID</b>     | <a href="#">P01730</a> |