

## CD4 (PT0412R) PT™ Rabbit mAb (AbFluor 488)

CatalogNo: YM2219 **Recombinant** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human

#### Applications

- IF

#### MW

- 51kD (Calculated)
- 55kD (Observed)

#### Isotype

- IgG,Kappa

#### Conjugate

- AbFluor 488

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

### Recommended Dilution Ratios

IF 1:100-500

### Basic Information

**Clonality** Monoclonal**Clone Number** PT0412R

### Immunogen Information

**Specificity** Endogenous

### Target Information

**Gene name** CD4

**Protein Name** T-cell surface glycoprotein CD4 (T-cell surface antigen T4/Leu-3) (CD antigen CD4)

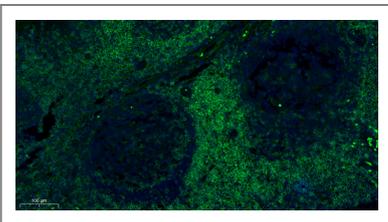
Organism	Gene ID	UniProt ID
Human	<a href="#">920</a> ;	<a href="#">P01730</a> ;
Mouse	<a href="#">12504</a> ;	<a href="#">P06332</a> ;
Rat	<a href="#">24932</a> ;	<a href="#">P05540</a> ;

**Cellular Localization** Membrane

**Tissue specificity** Highly expressed in T-helper cells. The presence of CD4 is a hallmark of T-helper cells which are specialized in the activation and growth of cytotoxic T-cells, regulation of B cells, or activation of phagocytes. CD4 is also present in other immune cells such as macrophages, dendritic cells or NK cells.

**Function** Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex. The antigens presented by class II peptides are derived from extracellular proteins while class I peptides are derived from cytosolic proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class II presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of T-helper cells. In other cells such as macrophages or NK cells, plays a role in differentiation/activation, cytokine expression and cell migration in a TCR/LCK-independent pathway. Participates in the development of T-helper cells in the thymus and triggers the differentiation of monocytes into functional mature macrophages. ; (Microbial infection) Primary receptor for human immunodeficiency virus-1 (HIV-1) . Down-regulated by HIV-1 Vpu . Acts as a receptor for Human Herpes virus 7/HHV-7 .

## Validation Data



Immunofluorescence analysis of human tonsil. 1,primary Antibody was diluted at 1:100(4~C overnight).

## Contact information

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Please scan the QR code to access additional product information:  
**CD4 (PT0412R) PT™**  
**Rabbit mAb**  
**(AbFluor 488)**

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