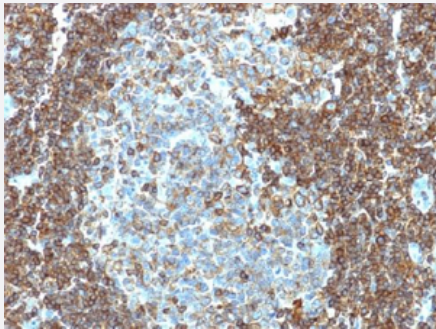


# CD3E monoclonal antibody, clone PC3/188A

Catalog # MAB14700      Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with CD3E monoclonal antibody, clone PC3/188A (Cat # MAB14700).

## Specification

|                            |                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Mouse monoclonal antibody raised against synthetic peptide of human CD3E.                                                                                                                                                                                       |
| <b>Immunogen</b>           | A synthetic peptide corresponding to amino acids 156-168 of the cytoplasmic domain of human CD 3E.                                                                                                                                                              |
| <b>Host</b>                | Mouse                                                                                                                                                                                                                                                           |
| <b>Reactivity</b>          | Human                                                                                                                                                                                                                                                           |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                          |
| <b>Purification</b>        | Protein A purification                                                                                                                                                                                                                                          |
| <b>Isotype</b>             | IgG1                                                                                                                                                                                                                                                            |
| <b>Recommend Usage</b>     | Flow Cytometry (0.5-1 ug/million cells)<br>Immunofluorescence (1-2 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL)<br>Western Blot (1-2 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In 10 mM PBS.                                                                                                                                                                                                                                                   |

**Storage Instruction**

Store at 4°C. For long term storage store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with CD3E monoclonal antibody, clone PC3/188A (Cat # MAB14700).

- Immunofluorescence
- Flow Cytometry

## Gene Info — CD3E

**Entrez GeneID** [916](#)

**Gene Name** CD3E

**Gene Alias** FLJ18683, T3E, TCRE

**Gene Description** CD3e molecule, epsilon (CD3-TCR complex)

**Omim ID** [186830](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary** The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women. [provided by RefSeq]

**Other Designations** CD3-epsilon|CD3E antigen, epsilon polypeptide|CD3e antigen, epsilon polypeptide (TiT3 complex)|T-cell antigen receptor complex, epsilon subunit of T3|T-cell surface antigen T3/Leu-4 epsilon chain|T-cell surface glycoprotein CD3 epsilon chain

## Publication Reference

- [The expression of the CD3 antigen in Hodgkin's disease.](#)

Cibull ML, Stein H, Gatter KC, Mason DY.

Histopathology 1989 Dec; 15(6):599.

- [Detection of T cells in paraffin wax embedded tissue using antibodies against a peptide sequence from the CD3 antigen.](#)

D Y Mason, J Cordell, M Brown, G Pallesen, E Ralfkiaer, J Rothbard, M Crumpton, K C Gatter.

Journal of Clinical Pathology 1989 Nov; 42(11):1194.

Application: IHC-Fr, IHC-P, IP, RIA, Human, Human T cell lymphoma

## Pathway

- [Hematopoietic cell lineage](#)
- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)

## Disease

- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Inflammation](#)