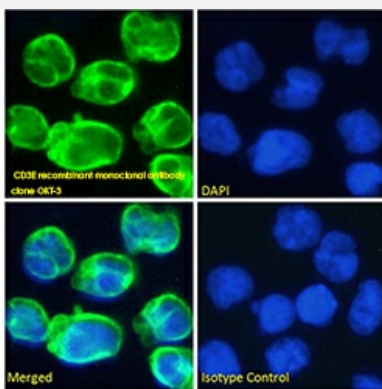


RecomAb™

# CD3E recombinant monoclonal antibody, clone OKT-3 (Muromonab)

Catalog # RAB01138      Size 200 ug

## Applications



### Immunofluorescence

Immunofluorescence analysis of paraformaldehyde fixed Molt4 cells on coverslips, permeabilized with 0.15% Triton and stained with the chimeric rabbit IgG version of OKT-3 at 10 ug/mL for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/mL), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

## Specification

Product Description	Mouse recombinant monoclonal antibody raised against human CD3.
Antibody Species	Mouse
Immunogen	Original antibody is raised against human peripheral E+ cells.
Reactivity	Human
Specificity	Epitope on the epsilon-subunit within the human CD3 complex.
Form	Liquid
Purification	Protein A affinity purification
Isotype	IgG2a, Kappa
Recommend Usage	Immunofluorescence The optimal working dilution should be determined by the end user.

**Storage Buffer**

In PBS with 0.02% Proclin 300

**Storage Instruction**

Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

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## Gene Info — CD3E

**Entrez GeneID**
[916](#)
**Protein Accession#**
[P07766](#)
**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

## 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](#)