

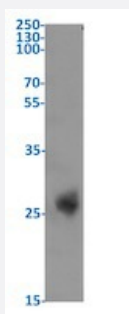
RecomAb™

CD3E recombinant monoclonal antibody, clone YTH 12.5

Catalog # RAB03261

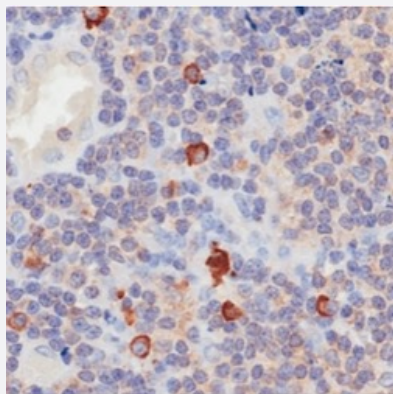
Size 200 ug

Applications



Western Blot

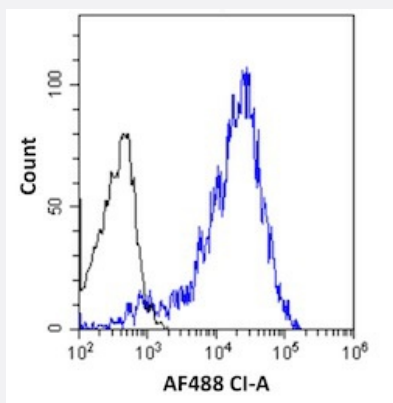
Western blot analysis of human spleen sample with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261).



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

Immunohistochemical staining of human tonsil tissue with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261).

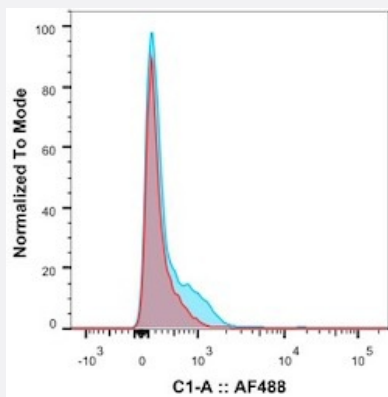
Anti-CD3E staining of paraffin embedded human tissue using the recombinant version of RAB03261. Antigen retrieval was achieved by microwaving in citrate buffer (pH6)- followed by blocking with protein block serum-free buffer (Dako-cat. #X0909). Primary antibody incubation with 24-204 was carried out at 4 ug/ml for 30 minutes. Samples were then incubated with an anti-r HRP secondary antibody (Dako cat#K4009) for 20 mins followed by Ddiaminobenzidine)- and counter-staining with haematoxylin. Strong membrane staining of T-cells at the periphery of the germinal centre and between follicles may be observed. Recommended concentration- 2-4 ug/ml.



Flow Cytometry

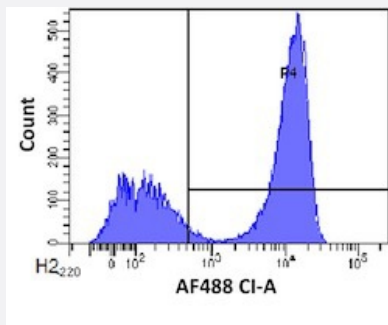
Flow cytometric analysis of Jurkat cells with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261).

Jurkat cells were stained with unimmunized r antibody (black line) or the recombinant version of RAB03261 (blue line) at a concentration of 10 ug/ml for 30 mins at RT. After washing- bound antibody was detected using anti-r JK (FITC-conjugate) antibody (129936) at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.



Flow Cytometry

Flow cytometric analysis of rhesus monkey lymphocytes with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261). Rhesus monkey lymphocytes were stained with an isotype control (3.0- red) or the rmeric version of RAB03261 (blue) at a concentration of 1 ug/ml for 30 mins at RT. After washing- bound antibody was detected using a AF488 conjugated donkey anti-ribody (and cells analysed on a FlowJo single-cell flow cytometer.



Flow Cytometry

Flow cytometric analysis of human lymphocytes with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261). Human lymphocytes were stained with an isotype control (3.0- panel A) or the rmeric version of RAB03261 (panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing- bound antibody was detected using a AF488 conjugated donkey anti-ribody (and cells analysed on a FACSCanto flow-cytometer.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CD3E.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human CD3E.
Reactivity	Human
Form	Liquid
Isotype	IgG lambda
Recommend Usage	Flow Cytometry Immunofluorescence Immunohistochemistry Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% Proclin 300)
Storage Instruction	Store at 4°C for 3 months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Western blot analysis of human spleen sample with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261).

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

Immunohistochemical staining of human tonsil tissue with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261).

Anti-CD3E staining of paraffin embedded human tissue using the recombinant version of RAB03261. Antigen retrieval was achieved by microwaving in citrate buffer (pH6)- followed by blocking with protein block serum-free buffer (Dako- cat. #X0909). Primary antibody incubation with 24-204 was carried out at 4 ug/ml for 30 minutes. Samples were then incubated with an anti-r HRP secondary antibody (Dako cat#K4009) for 20 mins followed by Ddiaminobenzidine)- and counter-staining with haematoxylin. Strong membrane staining of T-cells at the periphery of the germinal centre and between follicles may be observed. Recommended concentration- 2-4 ug/ml.

- Immunofluorescence

- Flow Cytometry

Flow cytometric analysis of Jurkat cells with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261). Jurkat cells were stained with unimmunized r antibody (black line) or the recombinant version of RAB03261 (blue line) at a concentration of 10 ug/ml for 30 mins at RT. After washing- bound antibody was detected using anti-r JK (FITC-conjugate) antibody (129936) at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.

- Flow Cytometry

Flow cytometric analysis of rhesus monkey lymphocytes with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261).

Rhesus monkey lymphocytes were stained with an isotype control (3.0- red) or the recombinant version of RAB03261 (blue) at a concentration of 1 ug/ml for 30 mins at RT. After washing- bound antibody was detected using a AF488 conjugated donkey anti-rabbit (and cells analysed on a FlowJo single-cell flow cytometer.

- Flow Cytometry

Flow cytometric analysis of human lymphocytes with CD3E recombinant monoclonal antibody, clone YTH 12.5 (Cat # RAB03261).

Human lymphocytes were stained with an isotype control (3.0- panel A) or the recombinant version of RAB03261 (panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing- bound antibody was detected using a AF488 conjugated donkey anti-rabbit (and cells analysed on a FACSCanto flow-cytometer.

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

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](#)