

Product datasheet for **TA385773**

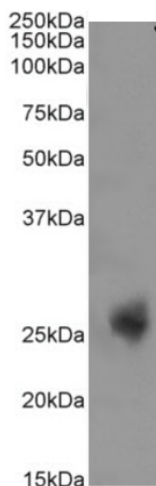
CD3E Rabbit Monoclonal Antibody [Clone ID: YTH 12.5]

Product data:

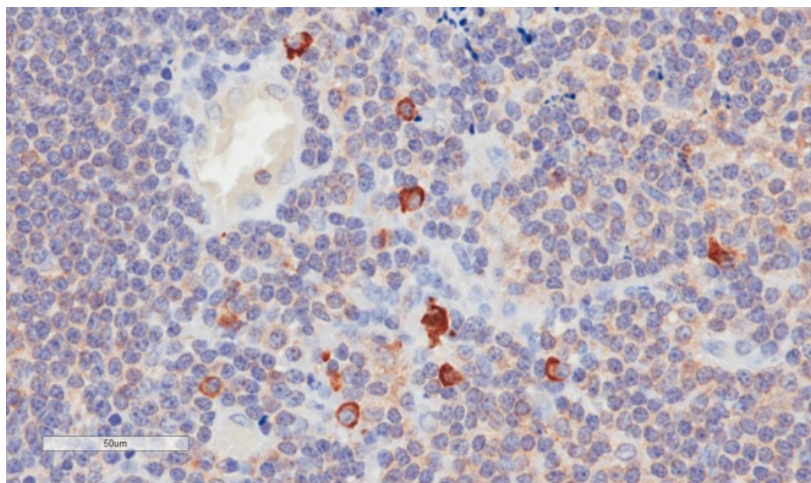
Product Type:	Primary Antibodies
Clone Name:	YTH 12.5
Applications:	IF, IHC, WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Immunogen:	Human CD3.
Specificity:	Recognises the epsilon chain of the human CD3 antigen complex on human T cells.
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	CD3e molecule
Database Link:	Entrez Gene 916 Human P07766
Synonyms:	CD3-epsilon; FLJ18683; T3E; TCRE
Note:	This chimeric rabbit antibody was made using the variable domain sequences of the original rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.



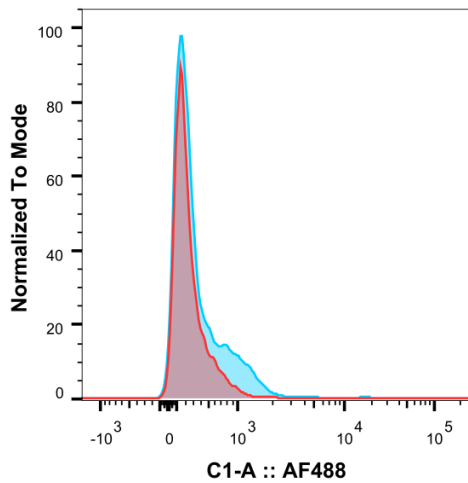
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Product images:

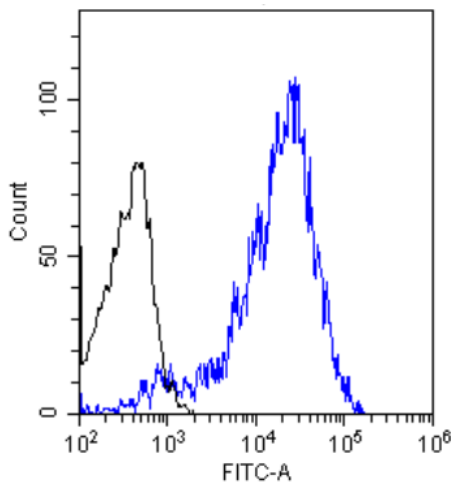
Western Blot using anti-CD3E antibody YTH 12.5 (TA385773). Human spleen sample (35µg protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of YTH 12.5 (TA385773) at 0.3 µg/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for CD3E is 23.1 kDa. TA385773 successfully detected human CD3E.



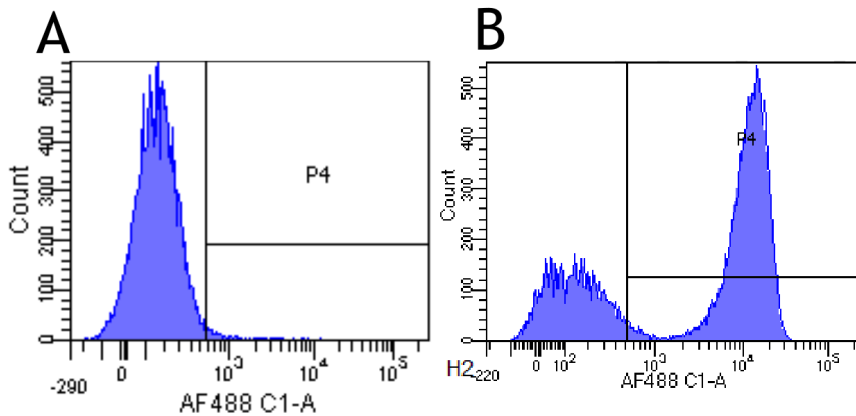
Immunohistochemical staining of human tonsil tissue using anti-CD3E antibody (TA385773). YTH 12.5 Anti-CD3E staining of paraffin embedded human tissue using the rabbit-chimeric version of YTH 12.5 (TA385773). Antigen retrieval was achieved by microwaving in citrate buffer (pH6), followed by blocking with protein block serum-free buffer. Primary antibody incubation with TA385773 was carried out at 4 µg/ml for 30 minutes. Samples were then incubated with an anti-rabbit IgG HRP secondary antibody for 20 mins followed by DAB (3,3'-diaminobenzidine), 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 µg/ml.



Flow-cytometry using anti-CD3 antibody YTH 12.5 (TA385773). Rhesus monkey lymphocytes were stained with an isotype control ([TA385644], red) or the rabbit-chimeric version of YTH 12.5 (TA385773, blue) at a concentration of 1 $\mu\text{g/ml}$ for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FlowJo single-cell flow cytometer.



Flow-cytometry using the anti-CD3E antibody YTH 12.5 (TA385773). Jurkat cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of YTH 12.5 (TA385773, blue line) at a concentration of 10 $\mu\text{g/ml}$ for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody at 2 $\mu\text{g/ml}$ and cells analyzed on a FACSCanto flow-cytometer.



Flow-cytometry using anti-CD3 epsilon antibody YTH 12.5 (TA385773). Human lymphocytes were stained with an isotype control ([TA385644], panel A) or the rabbit-chimeric version of YTH 12.5 (TA385773, panel B) at a concentration of 1 $\mu\text{g/ml}$ for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.