

Product Datasheet

Anti-CD3 epsilon [YTH 12.5] (orb411552)

Catalog Number	orb411552
Category	Antibodies
Description	Rat monoclonal antibody to CD3 epsilon
Target	CD3 epsilon
Clonality	Monoclonal
Species/Host	Rat
Isotype	Rat IgG
Conjugation	Unconjugated
Reactivity	Human
Concentration	1 mg/ml
Buffer/Preservatives	PBS with 0.02% Proclin 300.
Purity	Purified
Immunogen	Human CD3.
UniProt ID	P07766
Tested applications	IF, IHC, WB
Specificity	Recognises the epsilon chain of the human CD3 antigen complex on human T cells.
Clone Number	YTH 12.5

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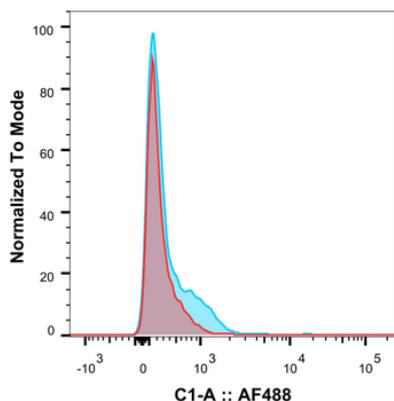
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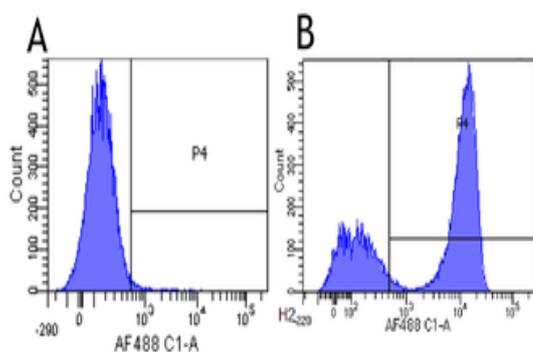
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Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Flow-cytometry using anti-CD3 antibody YTH 12.5 Rhesus monkey lymphocytes were stained with an isotype control (orb256390, red) or the rabbit-chimeric version of YTH 12.5 (orb411552, blue) at a concentration of 1 µg/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 anti-CD3 epsilon antibody YTH 12.5 Human lymphocytes were stained with an isotype control (orb256390, panel A) or the rabbit-chimeric version of YTH 12.5 (orb411552, panel B) at a concentration of 1 µg/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.

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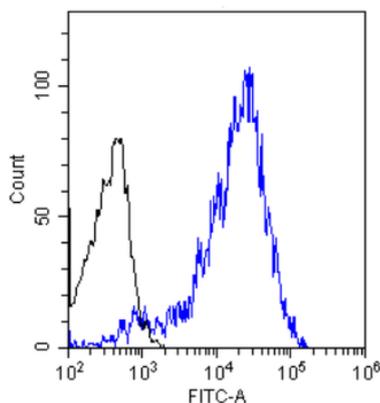
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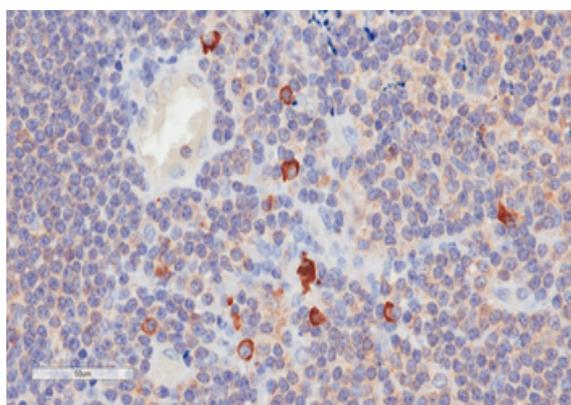
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Flow-cytometry using the anti-CD3E antibody YTH 12.5 Jurkat cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of YTH 12.5 (orb411552, blue line) at a concentration of 10 µg/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody (129936) at 2 µg/ml and cells analyzed on a FACSCanto flow-cytometer.



Immunohistochemical staining of human tonsil tissue using anti-CD3E antibody YTH 12.5 Anti-CD3E staining of paraffin embedded human tissue using the rabbit-chimeric version of YTH 12.5 (orb411552). Antigen retrieval was achieved by microwaving in citrate buffer (pH6), followed by blocking with protein block serum-free buffer. Primary antibody incubation with orb411552 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.



Western Blot using anti-CD3E antibody YTH 12.5 Human spleen sample (35 µg protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of YTH 12.5 (orb411552) 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. orb411552 successfully detected human CD3E.

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