

CD3 epsilon recombinant antibody

Anti-CD3 epsilon [YTH 12.5]

CATALOG #
AAA71963

REACTIVITY
Human

PRODUCT SYNONYMS

CD3 epsilon; Monoclonal Recombinant Antibody; Anti-CD3 epsilon [YTH 12.5]; T-cell surface glycoprotein CD3 epsilon chain; T-cell surface antigen T3/Leu-4 epsilon chain; CD3e; CD3E; T3E; YTH12.5; CD3 epsilon recombinant antibody

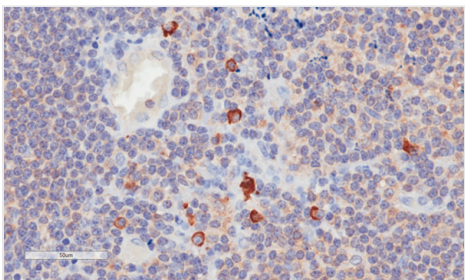
PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG, lambda
Clone Number	YTH 12.5
Specificity	Recognizes the epsilon chain of the human CD3 antigen complex on human T cells.
Purity/Purification	Purified Protein A Affinity Purified
Sequence Length	202
Immunogen	Human CD3.
Antigen	CD3 epsilon
Antigen Description	Human CD3.
Buffer Composition	PBS only with 0.02% Proclin 300.
Chimeric Use Statement	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.
Publication Note	Describes the production of rat monoclonal antibody and the assessment of its potential to mediate immune effector mechanisms.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



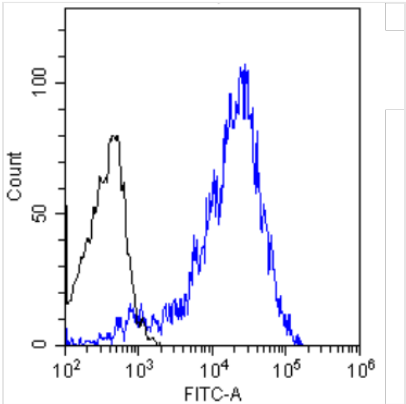
WB (Western Blot)

Western Blot using anti-CD3E antibody YTH 12.5 Human spleen sample (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of YTH 12.5 at 0.3 ug/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. successfully detected human CD3E.



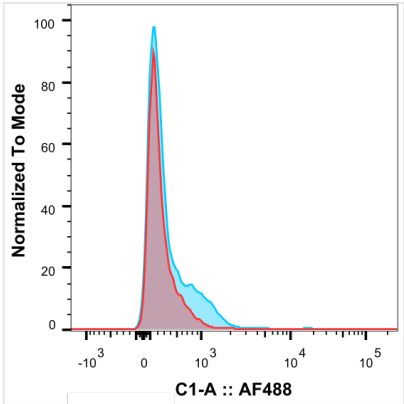
IHC (Immunohistochemistry)

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 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 ug/ml.



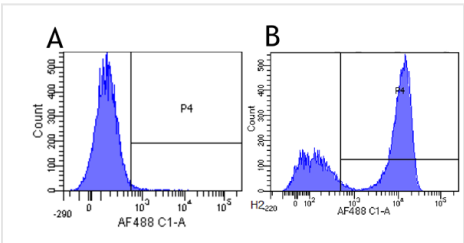
FCM/FACS (Flow Cytometry)

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 at a concentration of 10 ug/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody (129936) at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.



FCM/FACS (Flow Cytometry)

Flow-cytometry using anti-CD3 antibody YTH 12.5 Rhesus monkey lymphocytes were stained with an isotype control or the rabbit-chimeric version of YTH 12.5 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 antibody and cells analysed on a FlowJo single-cell flow cytometer.



FCM/FACS (Flow Cytometry)

Flow-cytometry using anti-CD3 epsilon antibody YTH 12.5 Human lymphocytes were stained with an isotype control or the rabbit-chimeric version of YTH 12.5 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 antibody and cells analysed on a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for CD3 epsilon recombinant antibody	Recombinant monoclonal antibody to CD3 epsilon. Manufactured using Recombinant Platform with variable regions (i.e. specificity) from the hybridoma YTH 12.5.
Product Categories/Family for CD3 epsilon recombinant antibody	Immunology; Biotherapeutics; Cytokines

References

Clark M, Hale G, Waldmann H. Adv Exp Med Biol. 1985;186:797-803. PMID:4050599

NCBI AND UNIPROT INFORMATION

NCBI GI #	163918
NCBI GeneID	442981
Molecular Weight	22,642 Da
NCBI Official Full Name	CD3 epsilon
NCBI Official Synonym Full Names	CD3e molecule
NCBI Official Symbol	CD3E
NCBI Protein Information	T-cell surface glycoprotein CD3 epsilon chain
UniProt Protein Name	T-cell surface glycoprotein CD3 epsilon chain
UniProt Gene Name	CD3E

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd3-epsilon-recombinant-antibody-clone-yth-12-5-elisa/71963>