

Mouse anti-Human CD3E Monoclonal Antibody | anti-CD3E antibody

CD3E antibody

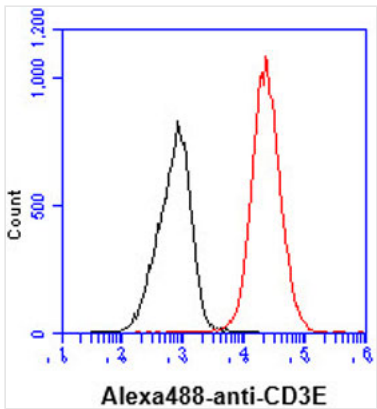
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48137	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

CD3E; Monoclonal Antibody; CD3E antibody; T-cell surface glycoprotein CD3 epsilon chain; T3E; TCRE; anti-CD3E antibody

PRODUCT SPECIFICATIONS

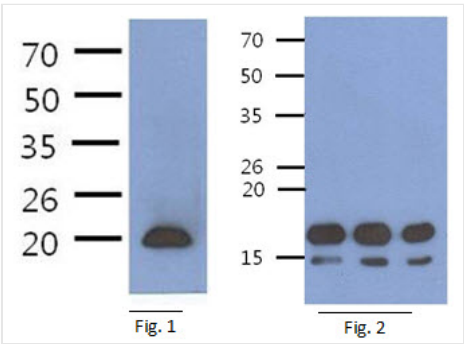
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	AT3H3
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	207
Applicable Applications for anti-CD3E antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human CD3E (23-126aa) purified from E. coli
Clone Note	Anti-human CD3E mAb, clone AT3H3, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CD3E protein.
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.



FCM/FACS (Flow Cytometry)
Flow cytometry analysis of CD3E in Jurkat cell line, staining at 2-5ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



IF (Immunofluorescence)
ICC/IF analysis of CD3E in Jurkat cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CD3E antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)
Fig. 1: The extract of Jurkat (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CD3E antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Fig. 2: The Human Recombinant protein CD3E (200, 100, 50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CD3E antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-CD3E antibody	The T cell antigen receptor (TCR) recognizes foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. Much of this signaling process can be attributed to a multi subunit complex of proteins that associates directly with the TCR. This complex has been designated CD3 (cluster of differentiation 3). It is composed of five invariant polypeptide chains that associate to form three dimers. 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.
Product Categories/Family for anti-CD3E antibody	Immunology
References	Gold DP., et al. (1986) Nature 321 (6068): 431-434; Soudais C., et al. (1993) Nat Genet 3 (1):77-81.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502671
NCBI GeneID	916
NCBI Accession #	NP_000724
NCBI GenBank Nucleotide #	NM_000733.3

UniProt Accession #	P07766 ; A8K997
NCBI Official Full Name	T-cell surface glycoprotein CD3 epsilon chain
NCBI Official Synonym Full Names	CD3e molecule
NCBI Official Symbol	CD3E
NCBI Official Synonym Symbols	T3E; TCRE; IMD18
NCBI Protein Information	T-cell surface glycoprotein CD3 epsilon chain
UniProt Protein Name	T-cell surface glycoprotein CD3 epsilon chain
UniProt Gene Name	CD3E
UniProt Synonym Gene Names	T3E

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd3e-antibody-clone-at3h3-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48137>