

Mouse CD3 Monoclonal Antibody | anti-CD3E antibody

CD3 (T-Cell Marker) Mouse Monoclonal Antibody

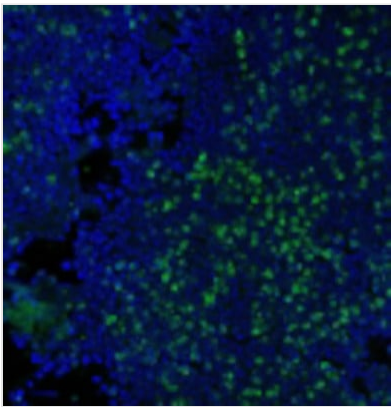
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13839	Mouse	Human, Mouse, Rat	Functional Assay, Flow Cytometry, Functional Assay, Immunofluorescence

PRODUCT SYNONYMS

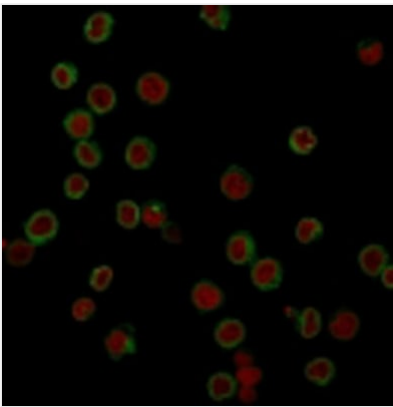
CD3; Monoclonal Antibody; CD3 (T-Cell Marker) Mouse Monoclonal Antibody; CD3E; CD3 epsilon; CD3 TCR complex; CD3e antigen epsilon polypeptide (TiT3 complex); T cell antigen receptor complex epsilon subunit of T3; T-cell surface antigen T3/Leu-4 epsilon chain; T-cell surface glycoprotein CD3 epsilon chain; T3E; TCRE; TiT3 complex; anti-CD3E antibody

PRODUCT SPECIFICATIONS

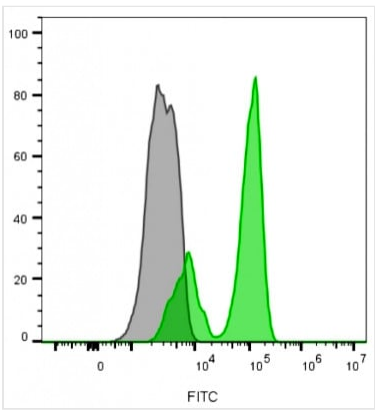
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG3, kappa
Clone Number	RIV9
Specificity	Reacts with five invariable CD3 chains (designated as and) with molecular weight ranging from 16-28kDa. It is found on all mature T-lymphocytes, NK, T-cells, and some thymocytes. CD3, also known as T3, is a member of the immunoglobulin superfamily that plays a role in antigen recognition, signal transduction, and T cell activation. It is expressed, typically at high levels, on peripheral T cells and majority of T cell neoplasms. Thymocytes express CD3 at different level on the cell surface in the course of differentiation and, in cortical thymus, CD3 is predominantly Intracytoplasmic. This MAb is particularly useful for induction of T cell activation in vitro and in vivo due to its unusual IgG3 isotype.
Form/Format	200ug/ml of Ab Purified from rabbit anti-serum by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Sequence Length	207
Applicable Applications for anti-CD3E antibody	FA (Functional Assay), FCM/FACS (Flow Cytometry), IF (Immunofluorescence)
Application Notes	Flow Cytometry (1-2ug/million cells) Immunofluorescence (1-2ug/ml) Optimal dilution for a specific application should be determined
Cellular Localization	Cell Surface and Cytoplasmic
Immunogen	Human peripheral lymphocytes
Hu-Chromosome Location	11q23.3
Positive Control	Jurkat cells. Tonsil and lymph node
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Non-hazardous. No MSDS required.



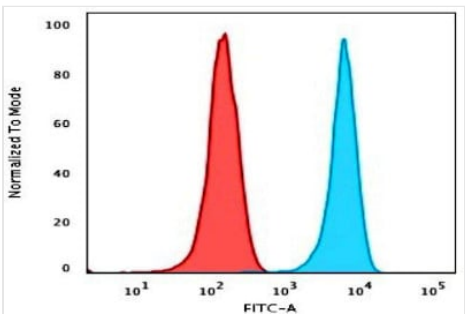
IF (Immunofluorescence)
Immunofluorescence Analysis of methanol-fixed human tonsil cryosection stained with CF488A CD3e clone RIV9 (green), mounted in EverBrite[®] Mounting Medium with DAPI (nuclei, blue).



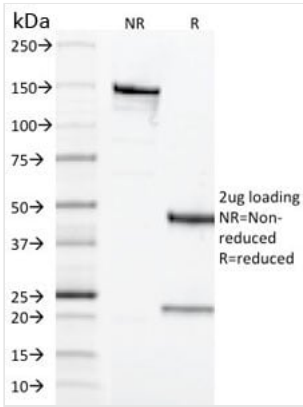
IF (Immunofluorescence)
Immunofluorescence Analysis of Jurkat cells labeling CD3e with CD3e Mouse Monoclonal Antibody (RIV9) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red dot (Red).



FCM (Flow Cytometry)
Flow cytometry analysis of lymphocyte-gated PBMCs unstained (gray) or stained with CF488A-labeled CD3 mouse monoclonal antibody (RIV9) (green)



FCM (Flow Cytometry)
Flow Cytometric Analysis of Jurkat Cells using CD3e Mouse Monoclonal Antibody (RIV9). Followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red)



SDS-PAGE
SDS-PAGE Analysis CD3e Mouse Monoclonal Antibody (RIV9). Confirmation of Integrity and Purity of Antibody

ADDITIONAL INFORMATION

References	Leerling MF et al. Quality control of anti human CD3 and CD4 monoclonal antibodies. Dev Biol Stand 1990, 71:191-200 Vaessen LM et al. RIV-9: a mouse IgG3 anti-human CD3 monoclonal antibody with strong antigen modulating and T cell eliminating properties. Transplant Proc 1989, 21:1026-7 Jiskoot W et al. Purification and stabilisation of a poorly soluble mouse IgG3 monoclonal antibody. J Immunol Methods 1991, 138(2):181-189 Ceuppens JL and Van Vaeck F. Human T cell activation induced by a monoclonal mouse IgG3 anti-CD3 antibody (RIV9) requires binding of the Fc part of the antibody to the monocytic 72-kDa high-affinity Fc receptor (FcRI). Cell Immunol 1989, 118(1):136-46 Knapp W et al. (eds) Leukocyte Typing IV, p245 and 1059, Oxford University Press, Oxford, 1989 Schlossman S et al. (eds) Leukocyte Typing V. Oxford University Press, Oxford, 1995. Alberola-Ila J et al. Stimulation through the TCR/CD3 complex up-regulates the CD2 surface expression on human T lymphocytes. J Immunol 1991, 146(4):108
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502671
NCBI GeneID	916
NCBI Accession #	NP_000724.1
NCBI GenBank Nucleotide #	NM_000733.3
UniProt Accession #	P07766; A8K997
Molecular Weight	20kDa
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
UniProt Entry Name	CD3E_HUMAN

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/cd3-antibody-clone-riv9-functional-assay-flow-cytometry-immunofluorescence-elisa/13839>