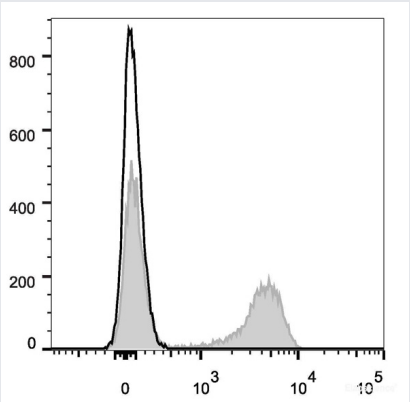
CD3 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD3, Monoclonal Antibody
Full Product Name	EV450 Anti-Mouse CD3 Antibody [17A2]
Product Gene Name	anti-CD3 antibody
Product Synonym Names	T-cell surface glycoprotein CD 3epsilon/delta/gamma/zeta chain; CD3E/D/G/Z; CD3e/d/g/z; CD3E/D/G/Z; CD3
Clonality	Monoclonal
Isotype	Rat IgG2b, kappa
Clone Number	17A2
Host	Rat
Species Reactivity	Mouse
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Concentration	0.2mg/mL (lot specific)
Preparation and Storage	Store at 2~8 degree C and protected from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: CD3 (MBS2568295) Isotype Control: IgG2b,kappa Clone #LTF-2 (MBS2568251)
Molecular Weight	19,032 Da
3D Structure	ModBase 3D Structure for P04235
Conjugation	EV450
Product Categories/Family for anti-CD3 antibody	FC_Antibody; FCM Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD3 antibody	Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-CD3 antibody	CD3, also known as T3, is a member of the Ig superfamily and primarily expressed on T cells, NK-T cells, and at different levels on thymocytes during T cell differentiation. CD3 is composed of CD3epsilon, delta, gamma and zeta chains. It forms a TCR complex by associating with TCR alpha/beta or gamma/delta chains. CD3 plays a critical role in TCR signal transduction, T cell activation, and antigen recognition by binding the peptide/MHC antigen complex.
Other Notes	Small volumes of anti-CD3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD3 purchase	MBS2568295 is an antibody targeting CD3. Also known as EV450 Anti-Mouse CD3 Antibody [17A2]. Reactive in Mouse. Host: Rat.



Flow Cytometry (FC/FACS) of anti-CD3 antibody
Mouse splenocytes are stained with EV450 Anti-Mouse CD3 Antibody[Used at 0.02 ?g/106 cells dilution](filled gray histogram). Unstained splenocytes(blank black histogram) are used as control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD3. It may not necessarily be applicable to this product.

NCBI GI #	227498961
NCBI GeneID	12500
NCBI Accession #	NP_038515.3
UniProt Primary Accession #	P04235
UniProt Secondary Accession #	P11942; P22646; P24161; P29020
UniProt Related Accession #	P04235
GenBank Nucleotide #	NM_013487.3
NCBI Official Full Name	T-cell surface glycoprotein CD3 delta chain
NCBI Official Synonym Full Names	CD3 antigen, delta polypeptide
NCBI Official Symbol	Cd3d
NCBI Official Synonym Symbols	T3d
UniProt Protein Name	T-cell surface glycoprotein CD3 delta chain
UniProt Synonym Protein Names	T-cell receptor T3 delta chain; CD_antigen: CD3d
Protein Family	CD302 antigen
UniProt Gene Name	Cd3d
UniProt Synonym Gene Names	T3d
UniProt Entry Name	CD3D_MOUSE
NCBI Protein Information	T-cell surface glycoprotein CD3 delta chain; T-cell receptor T3 delta chain

UniProt Comments for CD3	CD3D: a T cell surface glycoprotein that is a component of the T cell antigen receptor. A defect in this protein causes a severe combined immunodeficiency characterized by the absence of T cells but normal B cells. Contains 1 ITAM domain. Protein type: Receptor, misc.; Membrane protein, integral Cellular Component: T cell receptor complex; membrane; integral to membrane; alpha-beta T cell receptor complex Molecular Function: protein binding; transmembrane receptor activity; protein heterodimerization activity Biological Process: cell surface receptor linked signal transduction; T cell activation; protein complex assembly; positive thymic T cell selection
Research Articles on CD3	**1.** Polymorphisms of the CD3delta ectodomain exist in mice,some of which lead to amino acid substitutions which cause structural changes and affect anti-CD3 antibody binding.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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