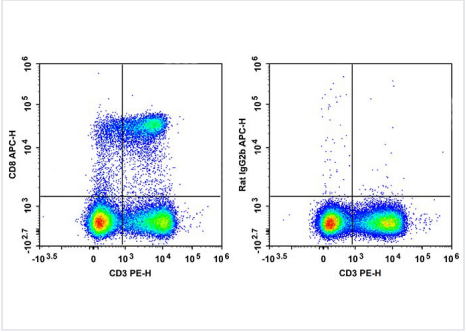
CD8 Antibody – Rat

PRODUCT OVERVIEW

Product Name	CD8, Antibody
Full Product Name	APC Anti-Mouse CD8 Antibody [YTS-169]
Product Gene Name	anti-CD8 antibody
Product Synonym Names	T8; Lyt2; Ly-2
Isotype	IgG2b, kappa
Clone Number	YTS-169
Host	Rat
Species Reactivity	Mouse
Preparation and Storage	This product can be stored at 2-8 degree C for 12 months. Please protected from prolonged exposure to light and do not freeze.
Matching Pairs	Antibody: CD8 Clone #YTS-169 (MBS2584967) Isotype Control: IgG2b, kappa Clone #LTF-2 (MBS2557868)
Molecular Weight	27456 MW
3D Structure	ModBase 3D Structure for P01731
Conjugation	APC
Product Categories/Family for anti-CD8 antibody	Antibodies and Reagents; Primary Antibodies; Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD8 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD8 antibody	MBS2584967 is an antibody targeting CD8. Also known as APC Anti-Mouse CD8 Antibody [YTS-169]. Reactive in Mouse. Host: Rat.
Other Notes	Small volumes of anti-CD8 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.



Flow Cytometry (FC/FACS) of anti-CD8 antibody
Staining of C57BL/6 murine splenocytes cells with PE Anti-Mouse CD3 Antibody and APC Anti-Mouse CD8 Antibody[YTS-169] (left) or APC Rat IgG2b, ? Isotype Control (right). Total viable cells were used for analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD8. It may not necessarily be applicable to this product.

NCBI GI #	12525
NCBI GeneID	12525
NCBI Accession #	NP_001074579.1
UniProt Primary Accession #	P01731
UniProt Related Accession #	P01731
GenBank Nucleotide #	NM_001081110.2
NCBI Official Full Name	T-cell surface glycoprotein CD8 alpha chain isoform 1
NCBI Official Synonym Full Names	CD8 antigen, alpha chain
NCBI Official Symbol	Cd8a
NCBI Official Synonym Symbols	Ly-2; Ly-B; Ly-35; Lyt-2; BB154331
UniProt Protein Name	T-cell surface glycoprotein CD8 alpha chain
UniProt Synonym Protein Names	T-cell surface glycoprotein Lyt-2; CD_antigen: CD8a
Protein Family	CD81 antigen
UniProt Gene Name	Cd8a
UniProt Synonym Gene Names	Lyt-2; Lyt2
NCBI Protein Information	T-cell surface glycoprotein CD8 alpha chain
UniProt Comments for CD8	Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class I molecule:peptide complex. The antigens presented by class I peptides are derived from cytosolic proteins while class II derived from extracellular proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class I proteins presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of cytotoxic T-lymphocytes (CTLs). This mechanism enables CTLs to recognize and eliminate infected cells and tumor cells. In NK-cells, the presence of CD8A homodimers at the cell surface provides a survival mechanism allowing conjugation and lysis of multiple target cells. CD8A homodimer molecules also promote the survival and differentiation of activated lymphocytes into memory CD8 T-cells.
Research Articles on CD8	**1.** results suggest that CD4 CD8 double knockout (DN)T cells can develop efficiently in vivo and chronic exposure to bacterial superantigens may precipitate a lupus-like autoimmune disease through activation of DNT cells
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