

Product datasheet

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ARG22899 anti-CD8 antibody [YTS105.18]

Package: 100 μg Store at: -20°C

Summary

Product Description Rat Monoclonal antibody [YTS105.18] recognizes CD8

Rat anti Mouse CD8, clone YTS105.18 recognizes a non polymorphic epitope on the mouse CD8 alpha chain. This antibody has been reported to block MHC I dependent T cell responses in vitro and in vivo, and induces transplantation tolerance in combination with CD4 antibodies (Cobbold et al. 1990 & Wise

et al. 1998).

Tested Reactivity Ms

Tested Application FACS, ICC/IF, IHC-Fr

Host Rat

Clone Monoclonal YTS105.18

Isotype IgG2a
Target Name CD8

Species Mouse

Immunogen Mouse spleen cells.

Conjugation Un-conjugated

Alternate Names T-cell surface glycoprotein CD8 alpha chain; Leu2; p32; T-lymphocyte differentiation antigen T8/Leu-2;

CD8; MAL; CD antigen CD8a

Application Instructions

Application table	Application	Dilution
	FACS	1:50 - 1:100
	ICC/IF	Assay-dependent
	IHC-Fr	1:50 - 1:500
Application Note	FACS: Use 10 μ l of the suggested working dilution to label 10^6 cells in 100 μ l. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS and 0.09% Sodium azide

Preservative 0.09% Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol Cd8a

Gene Full Name CD8 antigen, alpha chain

Background CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates

efficient cell-cell interactions within the immune system. The CD8 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class I MHC molecules. The coreceptor functions as either a homodimer composed of two alpha chains or as a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene encodes the CD8 alpha chain. Multiple transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Nov 2011]

Function CD8 is an 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 moment CD8. Totally, [UniProt]

differentiation of activated lymphocytes into memory CD8 T-cells. [UniProt]

Highlight Related products:

CD8 antibodies; CD8 ELISA Kits; CD8 Duos / Panels; Anti-Rat IgG secondary antibodies;

Related news:

New antibody panels and duos for Tumor immune microenvironment

Tumor-Infiltrating Lymphocytes (TILs)
Detecting exosomal HMGB1 for ICD research

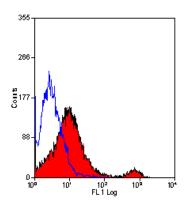
Research Area Developmental Biology antibody; Immune System antibody; Cytotoxic T antibody; Cytotoxic T Cell

Surface Study antibody; Tumor-infiltrating Lymphocyte Study antibody

Calculated Mw 26 kDa

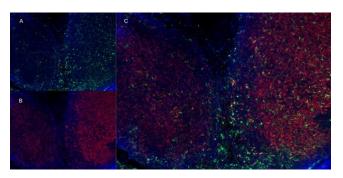
PTM All of the five most C-terminal cysteines form inter-chain disulfide bonds in dimers and higher

multimers, while the four N-terminal cysteines do not.



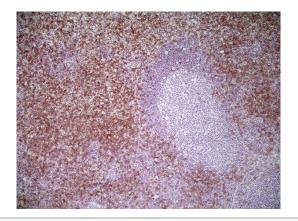
ARG22899 anti-CD8 antibody [YTS105.18] FACS image

Flow Cytometry: Mouse spleen cells stained with ARG22899 anti-CD8 antibody [YTS105.18].



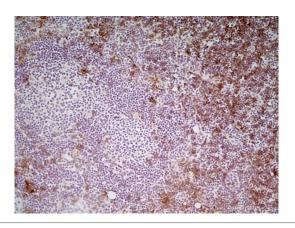
ARG22899 anti-CD8 antibody [YTS105.18] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with Rat anti Mouse CD11b antibody, green in A and ARG22899 anti-CD8 antibody [YTS105.18], red in B, Merged image in C.



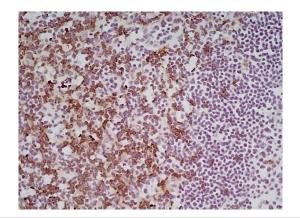
ARG22899 anti-CD8 antibody [YTS105.18] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with ARG22899 anti-CD8 antibody [YTS105.18] followed by HRP conjugated Goat anti Rat IgG for detection. (Low power).



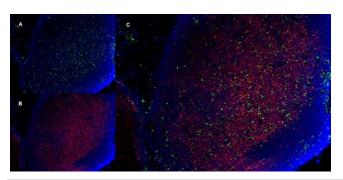
ARG22899 anti-CD8 antibody [YTS105.18] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with ARG22899 anti-CD8 antibody [YTS105.18] followed by HRP conjugated Goat anti Rat IgG for detection. (Medium power).



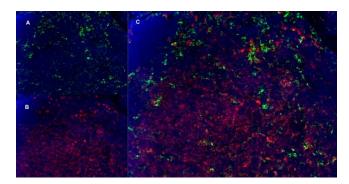
ARG22899 anti-CD8 antibody [YTS105.18] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with ARG22899 anti-CD8 antibody [YTS105.18] followed by HRP conjugated Goat anti Rat IgG for detection. (High power).



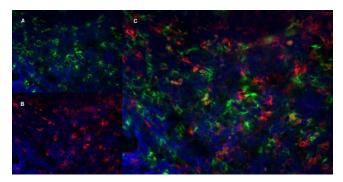
ARG22899 anti-CD8 antibody [YTS105.18] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with Rat anti Mouse CD11b, clone 5C6, green in A and ARG22899 anti-CD8 antibody [YTS105.18], red in B. C is the merged image with nuclei counterstained blue using DAPI. (Low power).



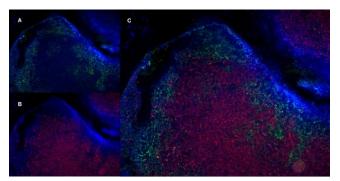
ARG22899 anti-CD8 antibody [YTS105.18] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with Rat anti Mouse CD11b, clone 5C6, green in A and ARG22899 anti-CD8 antibody [YTS105.18], red in B. C is the merged image with nuclei counterstained blue using DAPI. (High power).



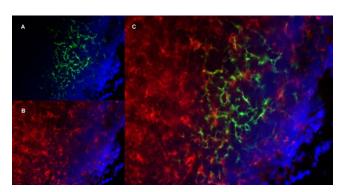
ARG22899 anti-CD8 antibody [YTS105.18] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with Rat anti Mouse Ly-6B.2 antibody, clone 7/4, green in A and ARG22899 anti-CD8 antibody [YTS105.18], red in B. C is the merged image with nuclei counterstained blue using DAPI. (High power).



ARG22899 anti-CD8 antibody [YTS105.18] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with Rat anti mouse CD19, clone 6D5, green in A and ARG22899 anti-CD8 antibody [YTS105.18], red in B. Merged image in C wih nuclei counterstained blue using DAPI. (Low power).



ARG22899 anti-CD8 antibody [YTS105.18] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with Rat anti mouse CD19, clone 6D5, green in A and ARG22899 anti-CD8 antibody [YTS105.18], red in B. Merged image in C wih nuclei counterstained blue using DAPI. (High power).