

Rat anti-Mouse CD8 ALPHA Monoclonal Antibody | anti-CD8 antibody

RAT ANTI MOUSE CD8

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12069	Rat	Mouse	Immunohistochemistry, Flow Cytometry, Functional Assay, Immunofluorescence

PRODUCT SYNONYMS

CD8 ALPHA; Monoclonal Antibody; RAT ANTI MOUSE CD8; CD8 Alpha; LY-2; Lyt2; Lyt-2; anti-CD8 antibody

PRODUCT SPECIFICATIONS

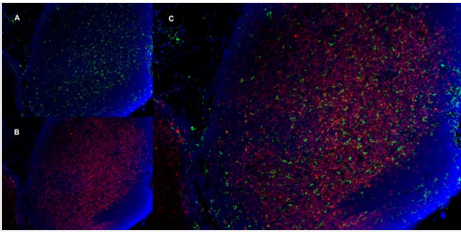
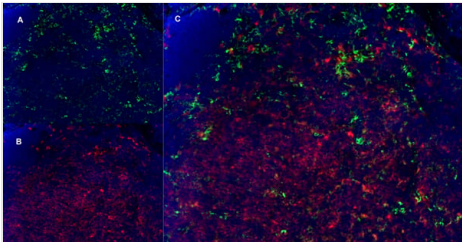
Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	YTS105.18
Specificity	Rat anti Mouse CD8, clone YTS105.18 recognizes a non polymorphic epitope on the mouse CD8 alpha chain. This antibody has been reported to block MHC I dependent T cell responses in vitro and in vivo and induces transplantation tolerance in combination with CD4 antibodies.
Form/Format	Liquid; Purified IgG
Concentration	IgG concentration 1 mg/ml (varies by lot)
Sequence Length	247
Applicable Applications for anti-CD8 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IF (Immunofluorescence)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 10^6 cells in 100ul. Suggested Dilution1/50-1/100 Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using the appropriate negative/positive controls.
Target Species	Mouse
RRID	AB_1102359
Immunogen	Mouse spleen cells
Perservative Stabilisers	0.09% Sodium Azide
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Carrier Free	Yes
Buffer Solution	Phosphate buffered saline
Fusion Partners	Spleen cells from an immunised DA rat were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line

Preparation and Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

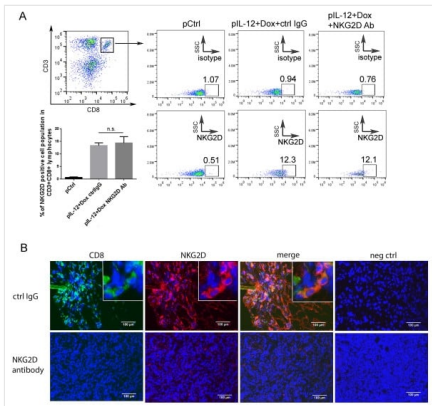
Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

IMAGES

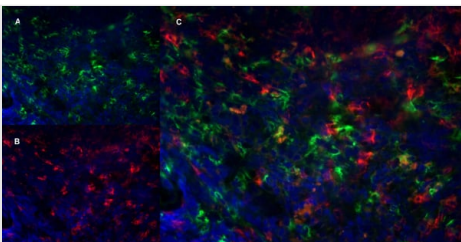


Application Data
Immunofluorescence staining of mouse lymph node cryosection with Rat anti Mouse CD11b, clone 5C6 , green in A and Rat anti Mouse CD8, clone YTS105.18 , red in B. C is the merged image with nuclei counterstained blue using DAPI. High power

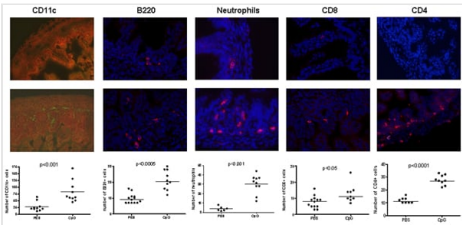
Application Data
Immunofluorescence staining of mouse lymph node cryosection with Rat anti Mouse CD11b, clone 5C6 , green in A and Rat anti Mouse CD8, clone YTS105.18 , red in B. C is the merged image with nuclei counterstained blue using DAPI. Low power



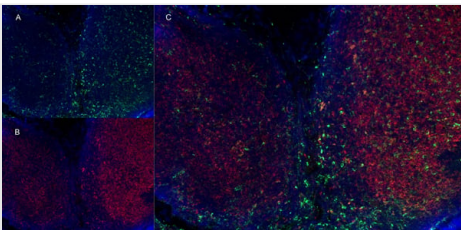
Application Data
Published customer image: The effect of NKG2D-blocking antibody on NKG2D-positive CD8+T cells and CD8+T cell accumulation in tumors. 4T-1 tumor -bearing mice were subjected to one of two treatments: Dox plus IL-12 plus control IgG or Dox plus IL-12 plus NKG2D-blocking antibody (n = 3 per treatment). (A) NKG2D expression in CD8+T cells was determined as described for Figure 1 (n.s., not significant). (B) The presence of NKG2D/CD8 - positive cells in tumor sections after the indicated treatments were determined as described for Figure 3. From: CD8+T cell-specific induction of NKG2D receptor by doxorubicin plus interleukin-12 and its contribution to CD8+T cell accumulation in tumors. Hu J, Zhu S, Xia X, Zhang L, Kleinerman ES, Li S. Mol Cancer. 2014 Feb 24;13:34.



Application Data
immunofluorescence staining of mouse lymph node cryosection with Rat anti Mouse Ly-6B.2 antibody, clone 7/4 , green in A and Rat anti Mouse CD8 antibody, clone YTS105.18 , red in B. C is the merged image with nuclei counterstained blue using DAPI. High power



Application Data
Published customer image: Recruitment of inflammatory cells in the intestine of neonates after CpG-ODN treatment. Eight-day-old neonatal mice received 20 ug/g of CpG-ODN orally. Twenty-four hours after treatment, ilea were removed to analyze the recruitment of inflammatory cells by immunohistology. Six to ten neonates from different litters (5 sections for each animal) per group were analyzed. Data were analyzed by non-parametric Mann-Whitney test. From: Lacroix-Lamand S, Rochereau N, Mancassola R, Barrier M, Clauzon A, et al. (2009) Neonate Intestinal Immune Response to CpG Oligodeoxynucleotide Stimulation. PLoS ONE 4(12): e8291.



Application Data
Immunofluorescence staining of mouse lymph node cryosection using Rat anti Mouse CD11b antibody , green in A and Rat anti Mouse CD8 antibody , red in B, Merged image in C

NCBI AND UNIPROT INFORMATION

NCBI GI #	124487437
NCBI GeneID	12525
NCBI Accession #	NP_001074579.1
NCBI 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
NCBI Protein Information	T-cell surface glycoprotein CD8 alpha chain; Lyt-2.1 lymphocyte differentiation antigen (AA at 100); T-cell surface glycoprotein Lyt-2
UniProt Protein Name	T-cell surface glycoprotein CD8 alpha chain
UniProt Gene Name	Cd8a
UniProt Synonym Gene Names	Lyt-2; Lyt2
UniProt Entry Name	CD8A_MOUSE

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/cd8-alpha-antibody-clone-yts105-18-immunohistochemistry-flow-cytometry-immunofluorescence-elisa/12069>