Rabbit anti-Mouse, Rat CD8 alpha/Cd8a Polyclonal Antibody | anti-Cd8a antibody

Anti-CD8 alpha/Cd8a Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125643	**Rabbit**	**Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot**

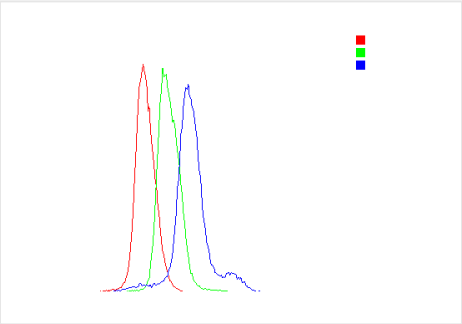
PRODUCT SYNONYMS

CD8 alpha/Cd8a; Polyclonal Antibody; Anti-CD8 alpha/Cd8a Antibody; T-cell surface glycoprotein CD8 alpha chain; T-cell surface glycoprotein Lyt-2; CD antigen CD8a; Cd8a; Lyt-2; Lyt2; CD8 antigen; alpha chain; anti-Cd8a antibody

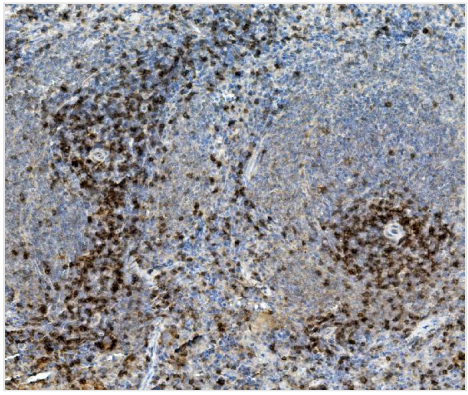
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for CD8 alpha/Cd8a detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-Cd8a antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse CD8 recombinant protein (Position: K39-K245).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

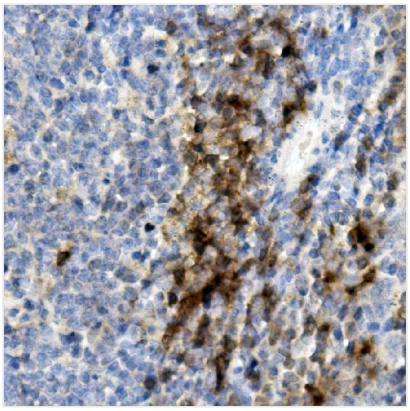
IMAGES



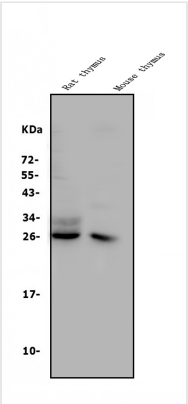
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of mouse spleen tissues using anti-CD8 alpha/Cd8a antibody (AAA125643).Overlay histogram showing mouse spleen tissues stained with AAA125643 (Blue line). The tissues were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD8 alpha/Cd8a Antibody (AAA125643,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemisry)
Figure 3. IHC analysis of CD8 alpha/Cd8a using anti-CD8 alpha/Cd8a antibody (AAA125643).CD8 alpha/Cd8a was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-CD8 alpha/Cd8a Antibody (AAA125643) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)
Figure 2. IHC analysis of CD8 alpha/Cd8a using anti-CD8 alpha/Cd8a antibody (AAA125643).CD8 alpha/Cd8a was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-CD8 alpha/Cd8a Antibody (AAA125643) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of CD8 alpha/Cd8a using anti-CD8 alpha/Cd8a antibody (AAA125643).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat thymus tissue lysatesLane 2: mouse thymus tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-CD8 alpha/Cd8a antigen affinity purified polyclonal antibody (Catalog # AAA125643) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CD8 alpha/Cd8a at approximately 26KD. The expected band size for CD8 alpha/Cd8a is at 26KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Cd8a antibody	The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. It is mapped to 2p11. 2. The CD8 antigen, acting as a coreceptor, and the T-cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or 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 also encodes the CD8 alpha chain isoforms.

References	1. Bowcock, A. M., Kavathas, P., Margolskee, R. F., Herzenberg, L., Cavalli-Sforza, L. L. An RFLP associated with pcDLeu2-14, a human T-cell differentiation antigen CD8 (Leu2) cDNA mapped to 2p12. Nucleic Acids Res. 14: 7817 only, 1986. 2. "Entrez Gene: CD8A CD8a molecule".

NCBI AND UNIPROT INFORMATION

NCBI GI #	124487437
NCBI GeneID	12525
NCBI Accession #	NP_001074579.1
NCBI GenBank Nucleotide #	NM_001081110.2
UniProt Accession #	P01731
Molecular Weight	27456 MW
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
UniProt Protein Name	T-cell surface glycoprotein CD8 alpha chain
UniProt Gene Name	**Cd8a**
UniProt Synonym Gene Names	Lyt-2; Lyt2

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://www.aaabiotech.com/polyclonal/cd8-alpha-cd8a-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125643