

Rabbit anti-Mouse, Rat LY6C Polyclonal Antibody | anti-Ly6c1/2 antibody

Anti-LY6C Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125830	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

LY6C; Polyclonal Antibody; Anti-LY6C Antibody; Lymphocyte antigen 6C1; Ly-6C1; Ly6c1; Lymphocyte antigen 6C2; Ly-6C2; Ly6c2; Ly6c; lymphocyte antigen 6 complex; locus C1/2; anti-Ly6c1/2 antibody

PRODUCT SPECIFICATIONS

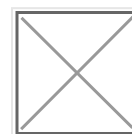
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-Ly6c1/2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse LY6C recombinant protein (Position: L27-G109).
Reconstitution	0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	We recommend Enhanced Chemiluminescent Kit with anti-Rabbit IgG (Please Inquire) for Western Blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (Please Inquire) for IHC(P).
Preparation and Storage	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Figure 4. IHC analysis of LY6C using anti-LY6C antibody (AAA125830). LY6C 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-LY6C Antibody (AAA125830) 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 Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of mouse spleen tissue using anti-LY6C antibody (AAA125830). Overlay histogram showing mouse spleen tissue stained with AAA125830 (Blue line). The tissue was blocked with 10% normal goat serum. And then incubated with rabbit anti-LY6C Antibody (AAA125830, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 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 (Immunohistochemistry)

Figure 2. IHC analysis of LY6C using anti-LY6C antibody (AAA125830). LY6C 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-LY6C Antibody (AAA125830) 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 Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of LY6C using anti-LY6C antibody (AAA125830). 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 50µg of sample under reducing conditions. Lane 1: mouse RAW264.7 whole cell lysates; Lane 2: mouse ANA-1 whole cell 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-LY6C antigen affinity purified polyclonal antibody with Tanon 5200 system. A specific band was detected for LY6C at approximately 14KD. The expected band size for LY6C is at 14KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Ly6c1/2 antibody	Ly6C is a murine cell-surface antigen expressed by plasma cells, subsets of myeloid cells and many T cells, including memory T cells.
References	1. Arno Hänninen, Mikael Maksimow, Catharina Alam, David J Morgan, Sirpa Jalkanen. Ly6C Supports Preferential Homing of Central Memory CD8+ T Cells Into Lymph Nodes. Eur J Immunol. 2011 Mar;41(3):634-44. doi: 10.1002/eji. 201040760. Epub 2011 Feb 10.

NCBI AND UNIPROT INFORMATION

NCBI GI #	355390364
NCBI GeneID	17067
NCBI Accession #	NP_001238984.1
NCBI GenBank Nucleotide #	NM_001252055.1
UniProt Accession #	P0CW02; P0CW03
NCBI Official Full Name	lymphocyte antigen 6C1 isoform 1
NCBI Official Synonym Full Names	lymphocyte antigen 6 complex, locus C1
NCBI Official Symbol	Ly6c1
NCBI Official Synonym Symbols	Ly6c; Ly-6C; Ly-6C1; AA682074; AA959465
NCBI Protein Information	lymphocyte antigen 6C1
UniProt Protein Name	Lymphocyte antigen 6C1
UniProt Gene Name	Ly6c1
UniProt Synonym Gene Names	Ly-6C1
UniProt Entry Name	LY6C1_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/polyclonal/ly6c-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125830>