Rabbit anti-Mouse, Rat CD72 Polyclonal Antibody | anti-Cd72 antibody

Anti-CD72 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19329	**Rabbit**	**Mouse, Rat**	**Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA**

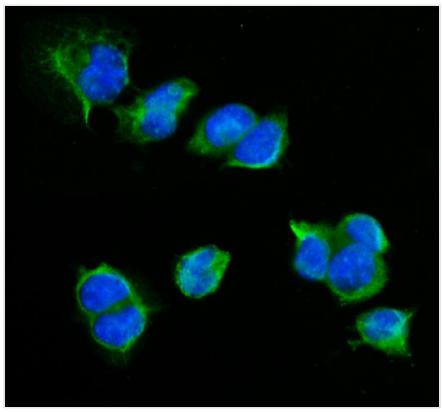
PRODUCT SYNONYMS

CD72; Polyclonal Antibody; Anti-CD72 Antibody; B-cell differentiation antigen CD72; Lyb-2; Lymphocyte antigen 32; Ly-32; CD antigen CD72; Cd72; Ly32; CD72 antigen; anti-Cd72 antibody

PRODUCT SPECIFICATIONS

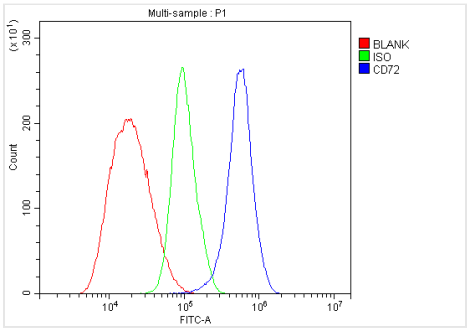
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for CD72 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-Cd72 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml|Mouse, Rat| IHC-P: 2-5ug/ml|Mouse, Rat| ICC/IF: 5ug/ml|Mouse| FC/FACS/FCM: 1-3ug/1x106 cells|Mouse| Direct ELISA: 0.1-0.5ug/ml|Mouse|
Immunogen	E Coli-derived mouse CD72 recombinant protein (Position: A8-R346).
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



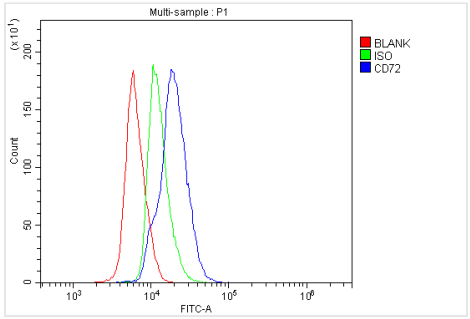
IF (Immunofluorescence)

Figure 6. IF analysis of CD72 using anti- CD72 antibody (AAA19329).CD72 was detected in immunocytochemical section of HEPA1-6 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- CD72 Antibody (AAA19329) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



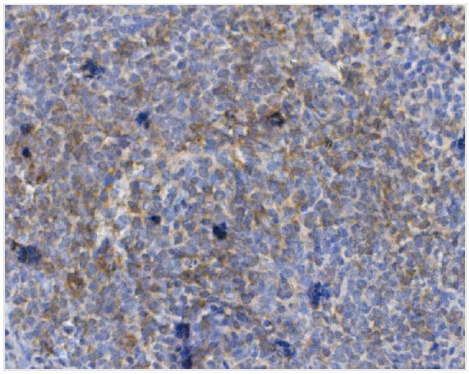
FCM (Flow Cytometry)

Figure 4. Flow Cytometry analysis of ANA-1 cells using anti-CD72 antibody (AAA19329).Overlay histogram showing ANA-1 cells stained with AAA19329 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD72 Antibody (AAA19329, 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.



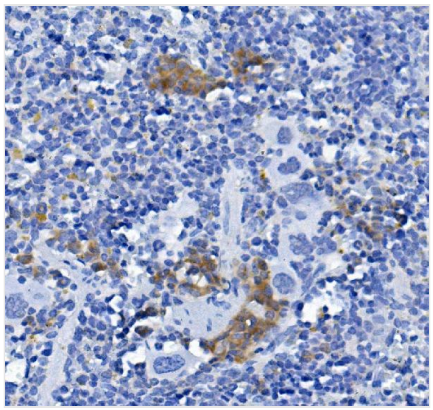
FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of mouse spleen tissue using anti-CD72 antibody (AAA19329).Overlay histogram showing mouse spleen tissue stained with AAA19329 (Blue line). The tissue was blocked with 10% normal goat serum. And then incubated with rabbit anti-CD72 Antibody (AAA19329, 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.



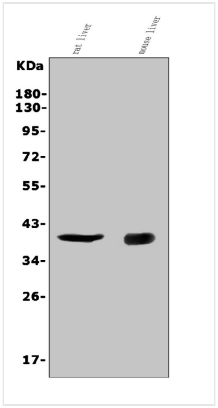
IHC (Immunohistochemistry)

Figure 3. IHC analysis of CD72 using anti-CD72 antibody (AAA19329).CD72 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 2μg/ml rabbit anti-CD72 Antibody (AAA19329) 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) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of CD72 using anti-CD72 antibody (AAA19329).CD72 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 2μg/ml rabbit anti-CD72 Antibody (AAA19329) 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) (Catalog # with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of CD72 using anti-CD72 antibody (AAA19329).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 liver tissue lysatesLane 2: mouse liver 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-CD72 antigen affinity purified polyclonal antibody (Catalog # AAA19329) 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 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # with Tanon 5200 system. A specific band was detected for CD72 at approximately 35KD. The expected band size for CD72 is at 35KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Cd72 antibody	CD72 (Cluster of Differentiation 72), also known in murine biology as Lyb-2, is a protein active in the immune systemof animals. This gene is mapped to 9p13. 3. It consists of two identical halves, each of about 39-43 kD, and is a C-type lectin. Its primarily locus of expression is B-cells, where it appears to mediate aspects of B-cell - T-cell interaction. It is a ligand for CD5.
References	1. Abbas, A. K. and Andrew Licktman, 2003, Cellular and Molecular Immunology, p. 512. 2. Kumanogoh, A., Watanabe, C., Lee, I., Wang, X., Shi, W., Araki, H., Hirata, H., Iwahori, K., Uchida, J., Yasui, T., Matsumoto, M., Yoshida, K., Yakura, H., Pan, C., Parnes, J. R., Kikutani, H. Identification of CD72 as a lymphocyte receptor for the class IV semaphorin CD100: a novel mechanism for regulating B cell signaling. Immunity 13: 621-631, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	160333097
NCBI GeneID	12517
NCBI Accession #	NP_031680.2
NCBI GenBank Nucleotide #	NM_007654.2
UniProt Accession #	P21855; Q64225; A2AIN6
Molecular Weight	40,347 Da
NCBI Official Full Name	B-cell differentiation antigen CD72 isoform 2
NCBI Official Synonym Full Names	CD72 antigen
NCBI Official Symbol	Cd72
NCBI Official Synonym Symbols	CD72c; Ly-19; Ly-32; Lyb-2; Ly-m19
NCBI Protein Information	B-cell differentiation antigen CD72; lymphocyte antigen 32
UniProt Protein Name	B-cell differentiation antigen CD72

UniProt Gene Name	**Cd72**
UniProt Synonym Gene Names	Ly-32; Ly32; Lyb-2; Ly-32
UniProt Entry Name	CD72_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://www.aaabiotech.com/polyclonal/cd72-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19329