

Rabbit anti-Mouse CD5 Monoclonal Antibody | anti-CD5 antibody

Recombinant Anti-CD5 Antibody, Rabbit Monoclonal

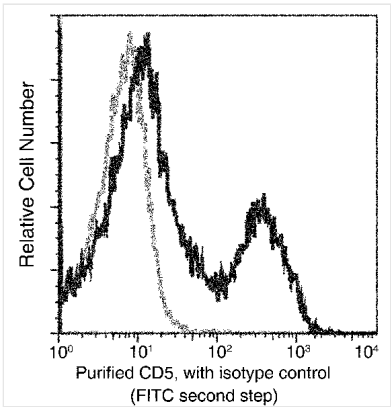
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257148	Rabbit	Mouse	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD5; Monoclonal Antibody; Recombinant Anti-CD5 Antibody; Rabbit Monoclonal; CD5/Cluster of Differentiation 5 Antibody; Rabbit MAb; CD5 molecule; Anti-Ly-1 Antibody; Anti-Ly-12 Antibody; Anti-Ly-A Antibody; Anti-Lyt-1 Antibody; anti-CD5 antibody

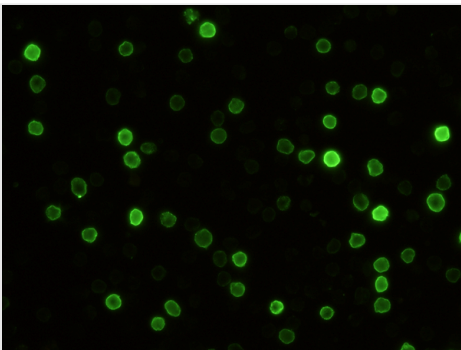
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	114
Specificity	Mouse CD5/Cluster of Differentiation 5
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CD5 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse CD5/Cluster of Differentiation 5 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse CD5/Cluster of Differentiation 5 (rM CD5/Cluster of Differentiation 5).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Mouse CD5 expression on BABL/c splenocytes. Cells were stained with purified anti-Mouse CD5, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)

Immunofluorescence staining of Mouse CD5 in Mouse Spleen cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-mouse CD5 monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cell membrane.

ADDITIONAL INFORMATION

Related Product Information for anti-CD5 antibody	The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD5 is a member of the CD system. CD5 was found to be widely distributed in T-cells and B1 cells which is a subset of IgM-secreting B cells. CD5 also was found expressed in small lymphocytic lymphoma, hairy cell leukaemia and mantle cell lymphoma cells. CD5 serves to weaken the activating stimulus from the BCR so that the B1 cells can only reflect to the very strong stimuli but not the normal tissue proteins.
Product Categories/Family for anti-CD5 antibody	ITIM/ITAM Immunoreceptors and Related Molecules
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters. 134 (2): 104-12.Kirchgessner H, et al. (2001) The transmembrane adaptor protein TRIM regulates T cell receptor (TCR) expression and TCR-mediated signaling via an association with the TCR zeta chain. J Exp Med. 193 (11): 1269-84.

NCBI AND UNIPROT INFORMATION

NCBI GI #	126517489
NCBI GeneID	12507
NCBI Accession #	NP_031676.3
NCBI GenBank Nucleotide #	NM_007650.3
UniProt Accession #	P13379
Molecular Weight	53,849 Da
NCBI Official Full Name	T-cell surface glycoprotein CD5
NCBI Official Synonym Full Names	CD5 antigen
NCBI Official Symbol	Cd5
NCBI Official Synonym Symbols	Ly-1; Ly-A; Ly-12; Lyt-1

NCBI Protein Information	T-cell surface glycoprotein CD5; lymphocyte antigen 1
UniProt Protein Name	T-cell surface glycoprotein CD5
UniProt Gene Name	Cd5
UniProt Synonym Gene Names	Ly-1; Ly-1; Lyt-1
UniProt Entry Name	CD5_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/monoclonal/cd5-antibody-clone-114-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/257148>