

Rabbit CD5 Polyclonal Antibody | anti-CD5 antibody

Anti-CD5 Picoband antibody

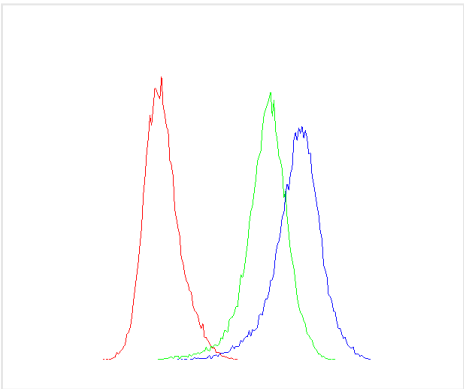
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124577	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

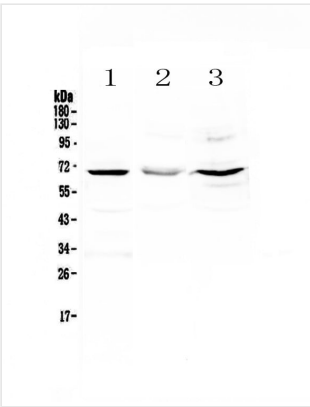
CD5; Polyclonal Antibody; Anti-CD5 Picoband antibody; T-cell surface glycoprotein CD5; Lymphocyte antigen T1/Leu-1; LEU1; anti-CD5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	495
Applicable Applications for anti-CD5 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Immunogen	A synthetic peptide corresponding to a sequence of human CD5 (KKLVKKFRQKKQRQWIGPTGMNQNMFSFHRNHTATVRSH).
Subcellular Localization	Cell membrane; Single-pass type I membrane protein.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of PBMC cells using anti-CD5 antibody (AAA124577). Overlay histogram showing PBMC cells stained with AAA124577 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD5 Antibody (AAA124577, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of CD5 using anti-CD5 antibody (AAA124577). 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 lysates, Lane 2: mouse HEP1-6 cell lysates, Lane 3: human Hela 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-CD5 antigen affinity purified polyclonal antibody at 0.5ug/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 CD5 at approximately 67KD. The expected band size for CD5 is at 54KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CD5 antibody	Description: CD5 is a member of the scavenger receptor cysteine-rich (SRCR) superfamily. Members of this family are secreted or membrane-anchored proteins mainly found in cells associated with the immune system. In humans, the gene is located on the long arm of chromosome 11. This protein is a type-I transmembrane glycoprotein found on the surface of thymocytes, T lymphocytes and a subset of B lymphocytes. The encoded protein contains three SRCR domains and may act as a receptor to regulate T-cell proliferation. Alternative splicing results in multiple transcript variants encoding different isoforms. Protein Function: May act as a receptor in regulating T-cell proliferation.
Product Categories/Family for anti-CD5 antibody	Immunology; Adaptive Immunity; B Cells; Immunology; T Cells; Stem Cells; Hematopoietic Progenitors; Lymphoid; B Lymphocytic Lineage; t lymphocytic lineage

NCBI AND UNIPROT INFORMATION

NCBI GI #	1080078688
NCBI GeneID	921
NCBI Accession #	NP_001333385.1
NCBI GenBank Nucleotide #	NM_001346456.1
UniProt Accession #	P06127; A0N0P4; A8K9I3
Molecular Weight	54,578 Da
NCBI Official Full Name	T-cell surface glycoprotein CD5 isoform 2
NCBI Official Synonym Full Names	CD5 molecule
NCBI Official Symbol	CD5
NCBI Official Synonym Symbols	T1; LEU1

NCBI Protein Information	T-cell surface glycoprotein CD5
UniProt Protein Name	T-cell surface glycoprotein CD5
UniProt Gene Name	CD5
UniProt Synonym Gene Names	LEU1

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/cd5-antibody-western-blot-immunocytochemistry-immunohistochemistry-flow-cytometry-elisa/124577>