

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

Anti-Hu CD5 PE

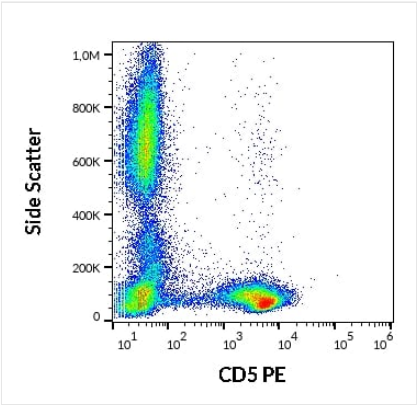
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128653	Mouse	Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

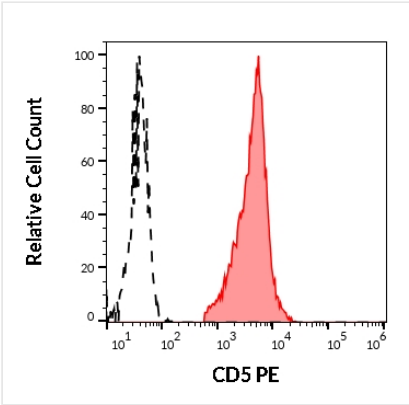
CD5; Monoclonal Antibody; Anti-Hu CD5 PE; CD5 molecule; T1; LEU1; anti-CD5 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a kappa
Clone Number	L17F12
Specificity	The mouse monoclonal antibody L17F12 reacts with an extracellular epitope of CD5, a 67kDa single-chain transmembrane glycoprotein expressed on mature T lymphocytes, most of thymocytes and B lymphocytes subset (B-1a lymphocytes).
Purity/Purification	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Sequence Length	495
Applicable Applications for anti-CD5 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human acute lymphoblastic leukemia (ALL) T cells
Conjugation	PE
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.



FCM/FACS (Flow Cytometry)
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD5 (L17F12) PE antibody (10 ul reagent / 100 ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)
Separation of human CD5 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD5 (L17F12) PE antibody (10 ul reagent / 100 ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD5 antibody	CD5 antigen (T1; 67 kDa) is a human cell surface T-lymphocyte single-chain transmembrane glycoprotein. CD5 is expressed on all mature T-lymphocytes, most of thymocytes, subset of B-lymphocytes and on many T-cell leukemias and lymphomas. It is a type I membrane glycoprotein whose extracellular region contains three scavenger receptor cysteine-rich (SRCR) domains. The CD5 is a signal transducing molecule whose cytoplasmic tail is devoid of any intrinsic catalytic activity. CD5 modulates signaling through the antigen-specific receptor complex (TCR and BCR). CD5 crosslinking induces extracellular Ca++ mobilization, tyrosine phosphorylation of intracellular proteins and DAG production. Preliminary evidence shows protein associations with ZAP-70, p56lck, p59fyn, PC-PLC, etc. CD5 may serve as a dual receptor, giving either stimulatory or inhibitory signals depending both on the cell type and development stage. In thymocytes and B1a cells seems to provide inhibitory signals, in peripheral mature T lymphocytes it acts as a costimulatory signal receptor. CD5 is the phenotypic marker of a B cell subpopulation involved in the production of autoreactive antibodies. Disease relevance: CD5 is a phenotypic marker for some B cell lymphoproliferative disorders (B-CLL, Hairy cell leukemia, etc.). The CD5+ population is expanded in some autoimmune disorders (Rheumatoid Arthritis, etc.). Herpes virus infections induce loss of CD5 expression in the expanded CD8+ human T cells.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	166197668
NCBI GeneID	921
NCBI Accession #	NP_055022.2
NCBI GenBank Nucleotide #	NP_055022.2
UniProt Accession #	P06127
NCBI Official Full Name	T-cell surface glycoprotein CD5 isoform 1
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/monoclonal/cd5-antibody-clone-l17f12-flow-cytometry-elisa/128653>