

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

Anti-Hu CD5 FITC

|                               |                      |                            |                                                         |
|-------------------------------|----------------------|----------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA128652</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
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### PRODUCT SYNONYMS

CD5; Monoclonal Antibody; Anti-Hu CD5 FITC; 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 fluorescein isothiocyanate (FITC) 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                                   | FITC                                                                                                                                                                                                                                 |
| Preparation and Storage                       | Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.                                                                                                                                                 |

### ADDITIONAL INFORMATION

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| Related Product Information for anti-CD5 antibody | <p>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<sup>++</sup> 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<sup>+</sup> population is expanded in some autoimmune disorders (Rheumatoid Arthritis, etc.). Herpes virus infections induce loss of CD5 expression in the expanded CD8<sup>+</sup> human T cells.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|-------------------------------------------|
| 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                                      |
| UniProt Entry Name               | CD5_HUMAN                                 |

**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-l17f12-flow-cytometry-elisa/128652>