

## 30-1910: Anti-CD5 Monoclonal Antibody (Clone:L17F12)-Biotin Conjugated

| Clonality :           | Monoclonal   |
|-----------------------|--|
| Clone Name :          | L17F12   |
| Application :         | FACS, IP, WB, ICC                                  |
| Reactivity :          | Human  |
| Conjugate :           | Biotin   |
| Gene :                | CD5  |
| Gene ID :             | 921  |
| Uniprot ID :          | P06127   |
| Alternative Name :    | CD5,LEU1   |
| Isotype :             | Mouse IgG2a  |
| Immunogen Information | : Human acute lymphoblastic leukemia (ALL) T cells |

## Description

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 lymhocytes 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+ popuation is expanded in some autoimmune disorders (Rheumatoid Arthritis, etc.). Herpes virus infections induce loss of CD5 expression in the expanded CD8+ human T cells.

## **Product Info**

Amount :0.1 mgStorage condition :Store at 2-8°C. Do not freeze.