

### OriGene Technologies, Inc.

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# Product datasheet for AM26700RP-N

#### CD5 Mouse Monoclonal Antibody [Clone ID: L17F12]

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	L17F12
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry analysis</b> of human blood cells using 10 $\mu$ l reagent / 100 $\mu$ l of whole blood or 10 <sup>6</sup> cells in a suspension.
	The content of a vial (1 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
lsotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human acute lymphoblastic leukemia (ALL) T cells
Specificity:	This antibody reacts with CD5, a 67kDa single-chain transmembrane glycoprotein expressed on mature T lymphocytes, most of thymocytes and B lymphocytes subset (B-1a lymphocytes).
Formulation:	Phosphate buffered saline (PBS) Label: PE State: Liquid Ig fraction Preservative: 15 mM sodium azide
Purification:	Size-exclusion chromatography
Conjugation:	PE
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! This products is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD5 molecule
Database Link:	<u>Entrez Gene 921 Human</u> <u>P06127</u>



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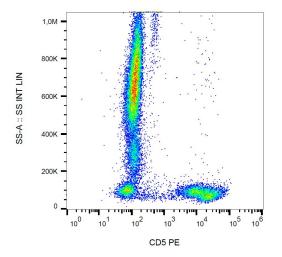
	CD5 Mouse Monoclonal Antibody [Clone ID: L17F12] – AM26700RP-N
Background:	CD5 antigen (T1; 67 kDa) is a human cell surface T-lymphocyte single-chain transmembrane glycoprotein. CD5 is expressed on all mature T-lymphocytes, most of thymocytes, subset of B-lymphocytes and on many T-cell leukemias and 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

Synonyms:

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CD5, LEU1

## Product images:



the expanded CD8+ human T cells.

Surface staining of CD5 in human peripheral blood cells with anti-CD5 (L17F12) PE.

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