

#### OriGene Technologies, Inc.

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# Product datasheet for AM03103RP-N

### CD5 Mouse Monoclonal Antibody [Clone ID: CRIS1]

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	CRIS1
Applications:	FC
Recommended Dilution:	Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Stimulated human leukocytes
Specificity:	This antibody reacts with the cell surface glycoprotein 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) containing 15 mM sodium azide and 0.2 % (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent. Label: PE State: Liquid Ig fraction Label: Conjugated with R-Phycoerythrin under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use
Conjugation:	PE
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
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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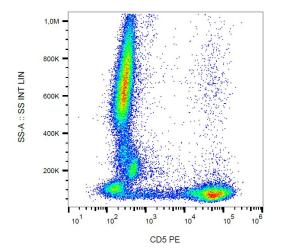
	CD5 Mouse Monoclonal Antibody [Clone ID: CRIS1] – AM03103RP-N
Background:	CD5 antigen (T1; 67 kDa) is a human cell surface T-lymphocyte single-chain transmembrane glycoprotein. CD5 is expressed on all mature T-lymphocytes, most of thymocytes, subset of B-lymphocytes and on many T-cell leukemias and lymphomas. 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.

Flow cytometry analysis of human peripheral blood stained with CRIS1 antibody PE.

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