

## ARG53867 anti-CD5 antibody [CRIS1] (APC)

Package: 100 tests Store at: 4°C

# Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [CRIS1] recognizes CD5
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone CRIS1 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). HLDA I; WS Code T 29 HLDA III; WS Code T 530
Host	Mouse
Clonality	Monoclonal
Clone	CRIS1
Isotype	lgG2a
Target Name	CD5
Species	Human
Immunogen	stimulated human leukocytes
Conjugation	APC
Alternate Names	CD antigen CD5; Lymphocyte antigen T1/Leu-1; LEU1; T-cell surface glycoprotein CD5; T1

## **Application Instructions**

Application table	Application	Dilution
	FACS	10 μl / 10^6 cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

## Properties

Liquid
The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
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Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

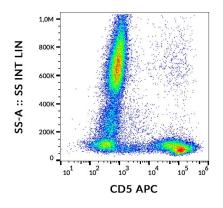
gently mixed before use.

#### Bioinformation

Note

Database links	GenelD: 921 Human
	Swiss-port # P06127 Human
Gene Symbol	CD5
Gene Full Name	CD5 molecule
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 the expanded CD8+ human T cells.
Function	May act as a receptor in regulating T-cell proliferation. [UniProt]
Research Area	Developmental Biology antibody; Immune System antibody
Calculated Mw	55 kDa
PTM	Phosphorylated on tyrosine residues by LYN; this creates binding sites for PTPN6/SHP-1.

#### Images



#### ARG53867 anti-CD5 antibody [CRIS1] (APC) FACS image

Flow Cytometry: Human peripheral blood stained with ARG53867 anti-CD5 antibody [CRIS1] (APC).