

Product datasheet

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ARG53868 anti-CD5 antibody [CRIS1] (PE)

Package: 100 tests Store at: 4°C

Summary

Product Description PE-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 IgG2a
Target Name CD5

Species Human

Immunogen stimulated human leukocytes

Conjugation PE

Alternate Names CD antigen CD5; Lymphocyte antigen T1/Leu-1; LEU1; T-cell surface glycoprotein CD5; T1

Application Instructions

Application table	Application	Dilution
	FACS	20 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

Form	Liquia
Purification Note	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
D ((DDC 45 mA4 Calling and a 200 for high read a make an Acceptance

Buffer PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA

Preservative 15 mM Sodium azide

Stabilizer 0.2% (w/v) high-grade protease free BSA

Storage instruction 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

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gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links <u>GeneID: 921 Human</u>

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.

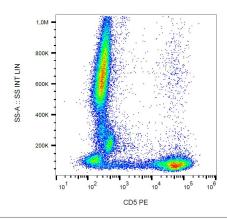
Function May act as a receptor in regulating T-cell proliferation. [UniProt]

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



ARG53868 anti-CD5 antibody [CRIS1] (PE) FACS image

Flow Cytometry: Human peripheral blood stained with ARG53868 anti-CD5 antibody [CRIS1] (PE).