

## Product datasheet

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# ARG53859 anti-CD45R0 antibody [UCHL1] (APC)

Package: 100 tests Store at: 4°C

#### **Summary**

Product Description Allophycocyanin-conjugated Mouse Monoclonal antibody [UCHL1] recognizes CD45R0

Tested Reactivity Hu
Tested Application FACS

Specificity The clone UCHL1 recognizes CD45R0, a 180 kDa low molecular weight isoform of the leukocyte

common antigen (LCA). The antigen is expressed on a subset of memory/activated T cells and on

cortical thymocytes.
HLDA III; WS Code NL 826
HLDA III; WS Code T 128
HLDA IV; WS Code NL 31
HLDA V; WS Code BP BP460
HLDA V; WS Code T T-081
HLDA V; WS Code T T-CD45.43

Host Mouse

Clonality Monoclonal

Clone UCHL1

Isotype IgG2a

Target Name CD45R0

Species Human

Immunogen Human IL-2 dependent T cells

Conjugation Allophycocyanin

Alternate Names LY5; GP180; Receptor-type tyrosine-protein phosphatase C; CD45; L-CA; CD antigen CD45; Leukocyte

common antigen; CD45R; LCA; T200; EC 3.1.3.48; B220

#### **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	

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should be determined by the scientist.

#### **Properties**

Form Liquid

Purification Note 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.

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

gently mixed before use.

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

#### **Bioinformation**

Database links <u>GeneID: 5788 Human</u>

Swiss-port # P08575 Human

Gene Symbol PTPRC

Gene Full Name protein tyrosine phosphatase, receptor type, C

Background CD45 is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling

molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided

by RefSeq, Jun 2012]

Function CD45: Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor.

Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby

modulates LYN activity.

(Microbial infection) Acts as a receptor for human cytomegalovirus protein UL11 and mediates binding

of UL11 to T-cells, leading to reduced induction of tyrosine phosphorylation of multiple signaling

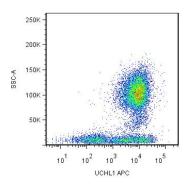
proteins upon T-cell receptor stimulation and impaired T-cell proliferation. [UniProt]

Research Area Developmental Biology antibody; Immune System antibody; Neuroscience antibody; Signaling

Transduction antibody; Mouse Inflammatory Cell Marker antibody; B Cell Marker antibody

Calculated Mw 147 kDa

PTM Heavily N- and O-glycosylated.



### ARG53859 anti-CD45R0 antibody [UCHL1] (APC) FACS image

Flow Cytometry: Human peripheral blood leukocytes stained with ARG53859 anti-CD45R0 antibody [UCHL1] (APC).