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10-7509: Monoclonal Antibody to CD45RO (Clone: C45.1)

Clonality :	Monoclonal
Clone Name :	C45.1
Application :	IHC,FACS
Reactivity :	Human
Gene :	PTPRC
Gene ID :	5788
Uniprot ID :	P08575
Format :	Purified
Alternative Name :	PTPRC,CD45
Isotype :	Mouse IgG2a Kappa
Immunogen Information :	Interleukin-2-dependent human T lymphocytes were used as the immunogen for the CD45RO antibody.

Description

The CD45RA and CD45RO isoforms of the leukocyte common antigen identify functionally distinct naive and memory T cell subsets. In vitro, CD45RA+ / CD45RO - peripheral blood lymphocytes (PBL) can be converted to CD45RA- / CD45RO + phenotype upon activation in the presence of IL-2. Both CD3+ and CD3-/CD56+ lymphocyte subsets can be converted to CD45RO + lymphocytes. Expression of CD45RO was observed only in response to IL-2 and was not observed during long-term culture in IL-4, IL-6, or IL-7. This antibody recognizes an 180kDa protein, identified as isoform of leukocyte common antigen (CD45RO). This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. Shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Though this antibody is useful to identify T-cell lymphomas and leukemia, rare staining with B cell lymphomas reported.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Immunohistochemical analysis: 1:250-1:500

FACS analysis: 0.5-2 µg/10^6 cells

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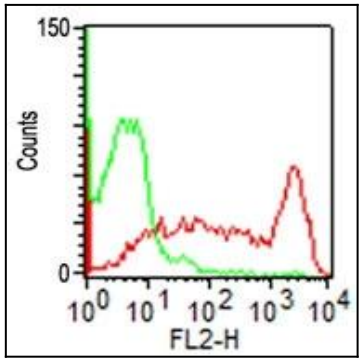

Fig.1: Cell Surface flow analysis of hCD45RO in PBMC (Lymphocytes gated) using 0.5 µg antibody per10^6 cells. Green represents isotype control (ABEOMICS); red represents anti-hCD45RO antibody (10-7509). Goat anti-mouse PE conjugated secondary antibody was used (ABEOMICS).

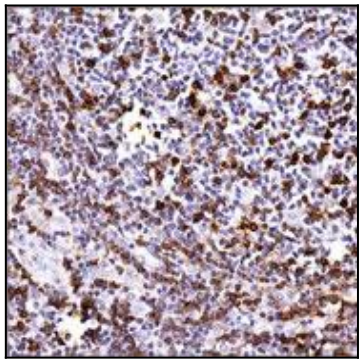

Fig: 2 Immunohistochemical analysis of CD45RO in human tonsil using CD45RO antibody (Clone: C45.1) at 1:500 dilution.

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