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

Clonality: Monoclonal **Clone Name:** C45.1 IHC.FACS Application: Reactivity: Human Gene: PTPRC Gene ID: 5788 **Uniprot ID:** P08575 Format: Purified PTPRC,CD45 **Alternative Name:** 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 :**  $25 \mu g / 100 \mu g$ 

**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<sup>6</sup> cells



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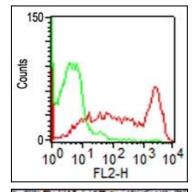


Fig.1: Cell Surface flow analysis of hCD45RO in PBMC (Lymphocytes gated) using 0.5  $\mu$ g antibody per10^6 cells. Green represents isotype control (ABEOMICS); red represents anti-hCD45RO antibody (10-7509). Goat anti-mouse PE conjugated secondary antibody was used (ABEOMICS).

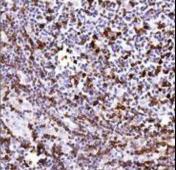


Fig: 2 Immunohistochemical analysis of CD45RO in human tonsil using CD45RO antibody (Clone: C45.1) at 1:500 dilution.