

ABGENEX Pvt. Ltd., E-5, Infocity, KIIT Post Office, Tel: +91-674-2720712, +91-9437550560 Email: info@abgenex.com Bhubaneswar, Odisha - 751024, INDIA

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

Interleukin-2-dependent human T lymphocytes were used as the immunogen for the CD45RO

Immunogen Information: 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



ABGENEX Pvt. Ltd., E-5, Infocity, KIIT Post Office, Tel: +91-674-2720712, +91-9437550560 Email: info@abgenex.com

Bhubaneswar, Odisha - 751024, INDIA

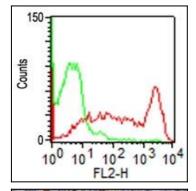


Fig.1: Cell Surface flow analysis of hCD45RO in PBMC (Lymphocytes gated) using 0.5 μg antibody per10^6 cells. Green represents isotype control (ABEOMICS); red represents anti-hCD45RO antibody (10-7509). Goat anti-mouse PE conjugated secondary antibody was used (ABEOMICS).

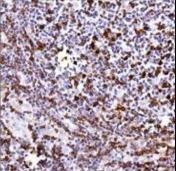


Fig: 2 Immunohistochemical analysis of CD45RO in human tonsil using CD45RO antibody (Clone: C45.1) at 1:500 dilution.