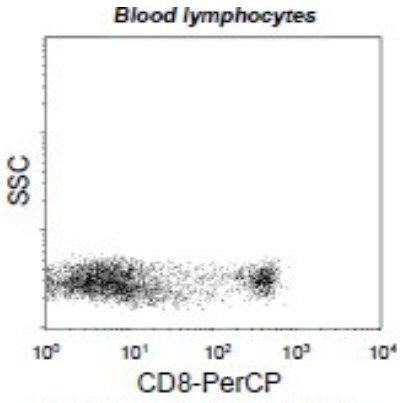
anti-human CD8 PerCP-conjugated

PerCP - conjugated monoclonal antibody HIT8a to human CD8

Cat-No: **21810085** 500 µl



Attention! Cells from one healthy individual are shown. Cell Populations and staining intensity may vary interindividually.

Clone: HIT8a

Specificity: The CD8 (HIT8a) antibody recognizes a 68-kDa type-I transmembrane glycoprotein that consists of two disulfide-linked chains that form either as alpha/alpha homodimers or alpha/beta heterodimers. The most frequent CD8 antigen is CD8 alpha/beta heterodimer, which is expressed on 13-48 % (about one-third of periphal T cells) peripheral blood lymphocytes-suppressor / cytotoxic T lymphocytes (Ts/Tc) and 70-80% of thymocytes. In addition, a proportion of γδT cells and NK cells express CD8α homodimers. CD8α can form homodimeers, CD8β cannot. CD8β requires the presence of CD8α to be expressed on the cell surface. CD8 antigen is co-receptor for HLA class-I molecules.

Isotype subclass: Mouse IgG1, k

Form: The purified antibody is conjugated with Peridin Chlorophyll (PerCP) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1% BSA and 0.09% sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label

Storage conditions: Store at 4 °C. Avoid prolonged exposure to light.

Application: Flow Cytometry

References:

*) Schlossman S. et al., eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. P246, Oxford University Press, New York
*) Shen DC., et al., 1990. Shanghai J. of Immunol. 10(3):147
*) Yang CY., et al. 1993. J. of Monoclonal Antibody. 9(4):42.

Background: The CD8 T cell coreceptor (monomer approx. 32-34 kDa) is expressed as ab heterodimer on majority of MHC I-restricted conventional T cells and thymocytes and as aa homodimer on subsets of memory T cells, intraepithelial lymphocytes, NK cells and dendritic cells. Regulation of CD8b level on T cell surface seems to be an important mechanism to control their effector function. Assembly of CD8 a-b but not a-a dimers is connected with formation or localization to the lipid rafts. Recruiting triggered TCR complexes to these membrane microdomains as well as affinity of TCR to MHC I is modulated by CD8, thereby affecting the functional diversity of the TCR signaling.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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