

anti-human CD8 FITC-conjugated

The antibody HI8a recognizes a 68-kDa type-I transmembrane glycoprotein that consists of two disulfide-linked chains that form alpha homodimers or alpha/beta heterodimers. The most frequent CD8 antigen is CD8 alpha/beta heterodimer, which is expressed on 13-48 % peripheral blood suppressor/cytotoxic T lymphocytes (Ts/Tc) and 70-80% thymocytes. In addition, a proportion of $\gamma\delta$ T cells and NK cells express CD8 α homodimers. CD8 β requires the presence of CD8 α to be expressed on the cell surface. CD8 antigen is co-receptor for HLA class-I molecules.

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.

Clone:	HIT8a
Isotype:	Mouse IgG1
Physical state:	Liquid for direct use
Form:	purified antibody conjugated with Fluorescein isothiocyanate (FITC)
Buffer:	PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.2)
Storage:	Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.
Application:	Flow Cytometry
Reference:	Schlossman S. et al., eds. 1995. Leucocyte Typing V Shen DC., et al., 1990. Shanghai J. of Immunol. Yang CY., et al. 1993. J. of Monoclonal Antibody.
Quantity:	1.0 ml
Order N°:	H12505F

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).

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