

## anti-human CD4 PE-conjugated

The antibody HIT4a recognizes a 55 kDa type-I single-chain transmembrane glycoprotein.

**CD4** is a single chain transmembrane glycoprotein and belongs to immunoglobulin supergene family. In extracellular region there are 4 immunoglobulin-like domains (1 Ig-Like V-type and 3 Ig-like C2-Type). Transmembrane region forms 25aa, cytoplasmic tail consists of 38 aa. Domains 1, 2 and 4 are stabilized by disulfide bonds. The intracellular domain of CD4 is associated with p56Lck, a Src-like protein tyrosine kinase. It was described, that CD4 segregates into specific detergent-resistant T-cell membrane microdomains. CD4 is a co-receptor involved in immune response (co-receptor activity in binding to MHC class II molecules) and HIV infection (human immunodeficiency virus; Cd4 is primary receptor for HIV-1 surface glycoprotein gp120). CD4 regulates T-cell activation, T/B-cell adhesion, T-cell differentiation, T-cell selection and signal transduction. Defects in antigen presentation (MHC classII) cause dysfunction of CD4+ T-cells and their almost complete absence in patients blood, tissue and organs (SCID immunodeficiency).

<b>Clone:</b>	HIT4a
<b>Isotype:</b>	Mouse IgG2b
<b>Physical state:</b>	Liquid for direct use
<b>Form:</b>	purified antibody conjugated with R-Phycoerythrin (R-PE)
<b>Buffer:</b>	PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.2)
<b>Storage:</b>	Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.
<b>Application:</b>	Flow Cytometry
<b>Reference:</b>	Tadamitsu K. et al., eds. 1997 Leucocyte Typing VI
<b>Quantity:</b>	1.0 ml
<b>Order N°:</b>	H12504P

**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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