

anti-human CD8

The UCHT-4 antibody recognises the CD8 alpha antigen on human cytotoxic/suppressor T-cells. On flow cytometry it stains 14-45% of human peripheral blood mononuclear cells. CD8 is a disulfide-linked dimer and exists as a CD8a homodimer or CD8a/b heterodimer (each monomer approx. 32-34 kDa). The antibody has been studied at the III. International Workshop on Human Leukocyte Differentiation Antigens. The antibody does not react with formaldehyde-fixed cells; negative in Western Blotting application.

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:	UCHT-4
Isotype:	Mouse IgG2a
Physical state:	Purified from ascites by protein-G affinity chromatography
Purity:	> 95% (by SDS-PAGE)
Buffer:	PBS with 15 mM sodium azide (pH 7.4)
Storage Instruction:	Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Application:	Flow Cytometry, Immunohistochemistry (frozen sections), does not react with formaldehyde-fixed cells; negative in Western Blotting application;
Reference:	McMichael, A.J. et al. (eds.), Leucocyte typing III., Oxford University Press, Oxford, (1987)
Quantity:	0.1 mg
Order N°:	H12498

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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