

## anti-human CD8 no azide

### Monoclonal antibody UCHT-4 to human CD8

Cat-No: **21620080**

100 µg in 100 µl

**Clone:** UCHT-4

**Specificity:** 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. The antibody has been studied at the III. International Workshop on Human Leukocyte Differentiation Antigens. CD8 is a TCR coreceptor molecule binding MHC class I. The CD8 antigen is expressed on human supressor/cytotoxic T-cells, human NK-cell subset, cortical thymocyte subset and granulocytes.

**Isotype subclass:** Mouse IgG2a/kappa

**Physical state:** Liquid

**Buffer/Additives/Preservative:** sterile PBS, pH 7.2

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

**Storage conditions:** Aliquot and store at -20°C. Avoid freeze/thaw cycles. Should be handled under aseptic conditions.

**Application:** functional application

#### References:

- 1.) Beverley, P., Proceedings of the Royal Society of Edinburgh 81B: p221-232 (1982)
- 2.) McMichael, A.J. et al. (eds.), Leucocyte typing III., Oxford University Press, Oxford, (1987)
- 3.) Barclay, Brown et al., The Leukocyte Antigen FactsBook, 2nd edition, Harcourt Brace & Company, London, (1997)

**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.

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