anti-human CD8

Monoclonal Antibody MEM-87 to CD8 (Human)

Cat-No: **21279081** 100 µg in 100 µl

Clone: MEM-87

Specificity: The antibody MEM-87 recognizes CD8, a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 is a disulfide-linked dimer and exists as a CD8α homodimer or CD8α/β heterodimer (each monomer approx. 32-34 kDa).

Ilsotype subclass: Mouse IgG1

Form: Purified from hybridoma culture supernatant by by protein-A affinity chromatography.

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 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. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application:
Flow Cytometry
Immunoprecipitation: excellent for immunoisolation of $CD8^+$ T cells

Background: The **CD8** T cell coreceptor (monomer approx. 32-34 kDa) is expressed as αβ heterodimer on majority of MHC I-restricted conventional T cells and thymocytes and as αα homodimer on subsets of memory T cells, intraepithelial lymphocytes, NK cells and dendritic cells. Regulation of CD8β level on T cell surface seems to be an important mechanism to control their effector function. Assembly of CD8 α-β but not α-α 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.

This material is offered for **research use only.** Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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