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FITC-labeled Antibody to Human CD8
MOUSE MONOCLONAL

Catalog Number: PRP-131ANT
Quantity: 500 micrograms
Format: Lyophilized
Host: Mouse
Isotype: IgG2a
Clone: hCD8
Immunogen: Purified human PBL CD8+ T cells

Background:

CD8 is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 acts as a co-receptor, and the T-cell receptor on the T lymphocyte recognizes antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional CD8 is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. CD8 identifies cytotoxic/suppressor t-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of t-cell mediated killing. CD8 alpha chains binds to class-I MHC molecules alpha-3 domains.

Specificity and Preparation:

Mouse anti-human CD8 is conjugated to FITC and purified over an ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution).

Usage and Storage:

Reported to be effective for flow cytometry ($10 \mu\text{l}/10^6$ cells) and is also weakly cytotoxic. Titer for cytotoxicity should be determined by the investigator. Reconstitute with H₂O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store at 4°C. DO NOT STORE FROZEN. The material may display diminished activity as a result of repeated freezing and thawing.

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