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**Biotin-labeled Antibody to Human CD8**  
**MOUSE MONOCLONAL**

**Catalog Number:** AB-429  
**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 biotin 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  $\mu$ l/10<sup>6</sup> cells) and is also weakly cytotoxic. Titer for cytotoxicity should be determined by the investigator.

Reconstitute with H<sub>2</sub>O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store lyophilized material at 4°C. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Material is stable for two years lyophilized, one month in solution at 4°C.

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