# Monoclonal Antibody CD8

## PN IM0102 – Purified – Freeze-dried – 0.2 mg – Clone B9.11

**For Research Use Only. Not for use in diagnostic procedures.**

### SPECIFICITY

The CD8 antigen is a disulfide linked dimer formed by the association of two subunits (α and β). The majority of $CD8^+$ lymphocytes express the αβ heterodimer form (1). Both α and β subunits constituting the CD8 dimers have a molecular weight ($M_r$) of 30 - 32 kDa. The CD8 antigen is found on a subset of human peripheral blood lymphocytes (PBL) called "cytotoxic / suppressor" T cells. It is also expressed, with a lower density, on a subset of natural killer (NK) cells. The CD8 antigen is present on approximately 26% of the PBL (2), on 80% of thymocytes (1, 3) and on a subpopulation representing 15 to 30% of bone marrow cells (4).

CD8 acts as an accessory molecule to the T cell receptor (TcR) complex during T-cell-activation restricted to the class I major histocompatibility complex (MHC) (4-7).

The B9.11 monoclonal antibody reacts with the α subunit of the CD8 heterodimer.

The B9.11 monoclonal antibody has been assigned to the CD8 cluster of differentiation during the first International Workshop on Human Leucocyte Differentiation Antigens held in Paris, France in 1982 (8).

### REAGENT

Monoclonal Antibody CD8
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| **Clone** | B9.11 |
| **Isotype** | IgG1 |
| **Immunogen** | Human HLA-A2 cytotoxic T-cell clone |
| **Hybridoma** | NS1/Ag 4.1 x Balb/c spleen cells |
| **Species** | Mouse |
| **Source** | Ascites fluid |
| **Purification** | Protein A affinity chromatography |

### REAGENT CONTENTS

1 mg/mL bovine serum albumin in phosphate-buffered saline.

### STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Avoid microbial contamination of reagent or erroneous results may occur.
5. Use good laboratory practices when handling this reagent.

### STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date on the vial label when stored at 2 – 8°C. The reconstituted form may be stored at – 20°C until the expiration date. Aliquotting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2 – 8°C. Minimize exposure to warmth.

### REAGENT PREPARATION

Reconstitute with 1 mL of distilled water. No preservative has been added.

### APPLICATIONS

Studies of CD8 positive cells by flow cytometry.

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

### SELECTED RESEARCH REFERENCES


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### PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.
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