SPECIFICITY
The CD8 antigen is a disulfide-linked dimer, which exists either as a CD8αβ heterodimer or as a CD8αα homodimer. CD8β is required for surface expression of CD8α. The molecular weight of each monomer α and β is approximately 32-34 kDa (1, 2). CD8 binds to a non polymorphic domain (α3 domain) of the MHC Class I molecules (3).
The CD8 molecule is found on a T cell subset of human peripheral blood lymphocytes. A subset of NK cells expresses the CD8αβ heterodimer and γδ T cells. CD8 is also present on most thymocytes where it is frequently co-expressed with CD4, and on a subpopulation of bone marrow cells. The CD8 molecule acts with the T Cell Receptor (TCR) as a co-receptor for MHC class I and II molecules.

The B9.11 monoclonal antibody (mAb) reacts with the α subunit of the CD8α heterodimer.
The B9.11 mAb has been assigned to the CD8α subunit of the CD8αβ heterodimer.

IOTest

REAGENT
IOTest CD8-ECD Conjugated Antibody
PN B08467 – 0.5 mL – Liquid

Clone
B9.11

Type
IgG1, Mouse

Immunogen
Human cytotoxic T-lymphocyte clone (HLA A2)

Hybridoma
NS1 x balb/c

Source
Ascites fluid or supernatant of in vitro cultured hybridoma cells.

Purification
Affinity chromatography

Conjugation
RPhycocerythrin-Texas Red-X (ECD)

Molar Ratio
ECD / Ig : 0.5 - 1.5

Fluorescence
Excites at 488 nm
Emits at 613 nm

REAGENT CONTENTS
This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

Analytical and performance characteristics are not established.

STATEMENTS OF WARNING
1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light or incorrect results might occur.
6. Use good laboratory practices when handling this reagent.
7. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

STORAGE AND HANDLING CONDITIONS AND STABILITY
This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PRECAUTIONS
Due to the tandem structure of the fluorochrome, ECD also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of ECD. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a ECD-conjugate.

SELECTED RESEARCH REFERENCES

TRADEMARKS
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MANUFACTURED BY:
IMMUNOTECH SAS
a Beckman Coulter Company
130, avenue de Lattre de Tassigny
B.P. 177 - 13276 Marseille Cedex 9
France

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

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