

# Monoclonal Antibody anti-Mouse CD8-Biotin

PN IM2779 – Liquid 1 mL – 10 µL / test – Clone KT15

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

## SPECIFICITY

The monoclonal antibody (mAb) KT15 recognizes mouse CD8 antigen (Ly2.1 and Ly2.2 alleles). It reacts with the CD8 $\alpha$  chain (non polymorphic) which is expressed on T cells (1, 2).

## REAGENT

Monoclonal Antibody anti-Mouse CD8-Biotin  
PN IM2779 – liquid 1 mL – 10 µL / test

**CLONE** KT15

**ISOTYPE** IgG2a

**IMMUNOGEN** T cell clone, C6

**HYBRIDOMA** NSO x SD rat

**SPECIES** Rat

**SOURCE** culture supernatant

**PURIFICATION** Affinity chromatography

## REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline (PBS: 0.008 M sodium phosphate, 0.15 M sodium chloride, pH 7.2), with 0.1% sodium azide (NaN<sub>3</sub>) as preservative, and 1 mg/mL bovine serum albumin (BSA).

## STATEMENT OF WARNINGS

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 handled as if capable of transmitting infection 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 reagent beyond the expiration date on the vial label.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practices (GLP) when handling this reagent.

## STORAGE CONDITIONS AND STABILITY

This reagent is stable to the expiration date on the vial label when stored at 2 – 8°C. Avoid repeated freezing and thawing. Minimize exposure to light and warmth.

## CONJUGATION

The purified Ig is conjugated to biotin. Revelation procedure requires streptavidin (or egg-white avidin) conjugated with a probe as an additional step after binding of the primary antibody.

## REAGENT PREPARATION

No preparation is necessary. This biotinylated Antibody is used directly from the vial. Bring reagent to 18 – 25°C prior to use.

## PROCEDURE

Flow Cytometry: Use 10 µL to label 10<sup>6</sup> cells.

For other applications it is recommended that the user titrates

the antibody for use in her / his own system using appropriate negative / positive controls.

## SELECTED REFERENCE

1. Whiteland, J.L., Nicholls, S.M., Shimeld, C., Easty, D.L., Williams, N.A., Hill, T.J., "Immuno-histochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies", 1995, J. Histochem. Cytochem., 43, 313-320.
2. Tomonari, K., Lovering, E., "T-Cell receptor-specific monoclonal antibodies against a V $\beta$ 11 positive mouse T-Cell clone", 1988, Immunogenetics, 28, 445-451.

## OTHER FORMS AVAILABLE

CD8 (IM2777)

CD8-FITC (IM2778)

CD8-PE (IM2780)

For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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