

Monoclonal Antibody IOTest[®] CD45-PE

PN IM1833- 100 tests – Liquid - 20 µL/test - Clone Immu-19.2

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

SPECIFICITY

The CD45 molecules are single chain integral membrane proteins, comprising at least 5 isoforms, ranging from 180 to 220 kDa. They are generated by alternative splicing combinations of three exons (A, B, and C) of the genomic sequence. The non-restricted CD45 antigen, Leucocyte Common Antigen (LCA) consists of an extracellular sequence, proximal to the membrane, which is common to all CD45 isoforms. All the monoclonal antibodies that belong to the CD45 cluster react with this part of the antigen and are able to recognize all CD45 isoforms. These isoforms have extracytoplasmic sequences ranging from 391 to 552 amino acids long, with numerous N-linked carbohydrate attachment sites. The cytoplasmic portion contains two phospho-tyrosine-phosphatase domains. The non-restricted CD45 epitope is present on the surface of all human leucocytes; lymphocytes, eosinophils monocytes, basophils and neutrophils, by order of decreasing level of expression. CD45 is a major component of the lymphocyte membrane. It is absent from erythrocytes and platelets. It is lost during maturation of erythroid cells in the bone marrow. CD45 antibodies react with leucocyte progenitors in bone marrow. The Immu19.2 monoclonal antibody reacts with a common determinant of all isoforms of the LCA structure present on the surface of lymphocytes, monocytes and granulocytes. It has been assigned to the CD45 cluster of differentiation at the 6th International Workshop on Human Leucocyte Differentiation Antigens in Kobe (1996) (WS Code: N-L103)

REAGENT

IOTest CD45-PE Monoclonal Antibody
PN IM1833 - 100 tests - Liquid - 20µL/test

Clone Immu-19.2
Isotype IgG1, Mouse
Immunogen FU 7.57 (EBV transformed cell line)
Hybridoma X63.Ag8.653x Balb/c spleen cells
Source Ascites fluid
Purification Protein A affinity or affinity chromatography
Conjugation R Phycoerythrin (PE)
Molar Ratio PE / Ig : 0.5 - 1.5
Fluorescence Excites at 486-509 nm
Emits at 568-590 nm

REAGENT CONTENTS

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

APPLICATION

Flow cytometry.

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 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 antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PROCEDURE

This reagent is designed for Flow Cytometry. Assay volume: 20 µL per 5 x 10⁵ cells in one test, or per 100 µL whole blood. It is recommended to establish the right range of antibody dilutions to be used for the experiment.

SELECTED RESEARCH REFERENCES

1. Serra-Pages, C., Morimoto, C., Schlossman, S.F., Saito, H., Streuli, M., "Characterization of CD45 mAb", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 389-391.
2. Sewell, W.A., Cooley, M.A., Hegen, M., "CD45 workshop panel report", 1997, in Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., et al., Eds., Garland Publishing Inc., 499502.

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