**Anti-Human CD3/CD4/CD45 (33-2A3/HP2/6/D3/9)**



# 4. REFERENCES 5. EXPLANATION OF SYMBOLS

FITC/PE/

PerCP 3F4PE45PP1-50T 50 test 

1. **PRODUCT DESCRIPTION**
   * **Clone:** 33-2A3, H2/6, D3/9;
   * **Isotype**: IgG2a, IgG2a, IgG1;
   * **Tested application**: flow cytometry;
   * **Species reactivity**: Human;
   * **Storage instruction:** store in the dark at 2-8 ºC;
   * **Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN );

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* + **Recommended usage**: Immunostep’s CD3/CD4/CD45, is a monoclonal antibody intended for simultaneous detection and enumeration of lymphocytes. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 106 cells.;
  + **Presentation**: liquid;
  + **Source**: Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
  + **Purification**: Affinity chromatography.

# ANTIGEN DETAILS

**Large description:** The CD3 monoclonal antibody is directed against the CD3- antigen (T3- antigen), which is expressed on human T lymphocytes. The monoclonal antibody reacts with 80-90% human peripheral T lymphocytes and medullary thymocytes. The monoclonal antibody does not react with B-cells, monocytes, granulocytes and platelets. The monoclonal antibody is mitogenic for resting T lymphocytes and it blocks the cytolytic activity of CTL clones.

The CD4 monoclonal antibody is directed against the CD4-antigen (T4-antigen),which is expressed on human peripheral T lymphocytes and 80% of thymocytes. The monoclonal antibody reacts on a low level with human monocytes and macrophages. The monoclonal antibody does not react with B-cells ,granulocytes and thrombocytes.

The CD45 monoclonal antibody is directed against the CD45- antigen, defined T200 or Leucocyte Common Antigen. The antibody reacts with all cells of the haemopoietic lineage, not with cells of other lineages.

1. Tunnacliffe A, Olsson C, Traunecker A, Krissansen GW, Karjalainen K, de la Hera A. T3.2. The majority of CD3 epitopes are conferred by the epsilon chain. In: Knapp W, Dörken B, Gilks WR, Rieber EP, Schmidt RE, Stein H, et al., editors. Leucocyte typing

IV. White cell differentiation antigens. Proceedings of the 4th International Workshop and Conference; 1989 Feb 21-25; Vienna, Austria. Oxford, New York, Tokyo: Oxford University Press; 1989. p. 295-6.

1. Piatier-Tonneau D. CD Guide. CD4. In: Mason D, André P, Bensussan A, Buckley C, Civin C, Clark E, et al., editors. Leucocyte typing VII. White cell differentiation antigens. Proceedings of the 7th International Workshop and Conference; 2000 Jun 19-23; Harrogate, United Kingdom. New York: Oxford University Press Inc.; 2002. p. 750-51.
2. Nuckols JD, Shea CR, Horenstein MG, Burchette JL, Prieto VG. Quantitation of intraepidermal T-cell subsets in formalin-fixed, paraffin-embedded tissue helps in the diagnosis of mycosis fungoides. J Cutan Pathol 1999;26:169-75.



Fluorochrome



Product reference

Content for <n> analysis

Regulatory Status

 Research Use Only



Manufacturer

**6. MANUFACTURED BY: IMMUNOSTEP S.L.**

Address: Avda. Universidad de Coimbra, s/n Cancer Research Center (C.I.C) Campus de Unamuno

37007 Salamanca (Spain)

Telf./fax**:** (+34) 923 294 827

E-mail: [info@immunostep.com](mailto:info@immunostep.com)

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