

## CD45 antibody [2D1] (PE-Cy5)

Cat. No. GTX01462-09

|             |            |
|-------------|------------|
| Host        | Mouse      |
| Clonality   | Monoclonal |
| Isotype     | IgG1       |
| Application | FACS       |
| Reactivity  | Human      |

Reference ( 4 )

Package

100 test

## PRODUCT

## Summary

The 2D1 antibody reacts with human CD45, one of the most abundant hematopoietic markers and one that is expressed on all leukocytes (the Leukocyte Common Antigen, LCA). CD45 is a protein tyrosine phosphatase existing in several isoforms, each being generated and expressed in cell-specific patterns. With its broad cell distribution, CD45 is critical for many leukocyte functions, regulating signal transduction and cell activation associated with the T cell receptor, B cell receptor, and IL-2 receptor. Other forms of CD45, with restricted cellular expression, include CD45R (B220), CD45RA, CD45RB, and CD45RO. The 2D1 antibody is widely used as a marker for human CD45 expression on peripheral blood T cells, B cells, monocytes, macrophages, and NK cells.

## APPLICATION

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution  |
|--------------------|---|
| FACS               | 0.25 µg (5 µl) for 10 <sup>5</sup> -10 <sup>8</sup> cells in 100 µl sample per test |

Not tested in other applications.

|               |                                   |
|---------------|-----------------------------------|
| Calculated MW | 147 kDa. ( <a href="#">Note</a> ) |
|---------------|-----------------------------------|

## PROPERTIES

|               |  |
|---------------|--|
| Form          | Liquid   |
| Buffer        | 10mM NaH <sub>2</sub> PO <sub>4</sub> , 150mM NaCl, 0.1% Gelatin   |
| Preservative  | 0.09% Sodium azide   |
| Storage       | Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C. DO NOT FREEZE. Protect from light. |
| Concentration | 0.05 mg/ml (Please refer to the vial label for the specific concentration.)  |
| Purification  | Purified by affinity chromatography<br>From tissue culture supernatant   |
| Conjugation   | Phycoerythrin-Cyanine5 (PE-Cy5)  |

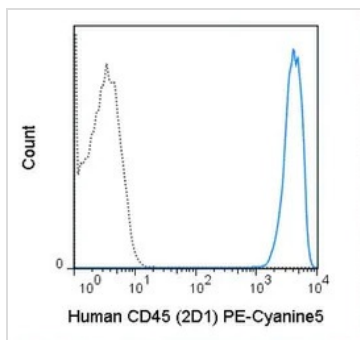


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**Note**

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

**DATA IMAGES**

**GTx01462-09 FACS Image**

FACS analysis of human peripheral blood lymphocytes using GTx01462-09 CD45 antibody [2D1] (PE-Cy5).

Solid line : primary antibody

Dashed line : isotype control

antibody amount : 0.25  $\mu$ g (5  $\mu$ l)



For full product information, images and publications, please visit our [website](https://www.genetex.com).