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PE-Cy7 Anti-Human CD45 (HI30) Antibody

Catalog # ATB10252

Specification

PE-Cy7 Anti-Human CD45 (HI30) Antibody - Product Information

Application	**FC**
Isotype	**Mouse IgG1, kappa**
Concentration	**5 uL (0.25 ug)/test**
Reactivity	**Human**
Formulation	**10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH7.2**
Host	**Mouse**

PE-Cy7 Anti-Human CD45 (HI30) Antibody - Additional Information

Gene ID	**5788**
Gene Name	**PTPRC**

Alternative Name(s)
Leukocyte Common Antigen, LCA, Ly-5

Format
PE-Cy7

Preparation
This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

Application Notes
This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 uL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 uL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10e5 to 1x10e8 cells.

Storage Conditions
2-8°C protected from light

PE-Cy7 Anti-Human CD45 (HI30) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

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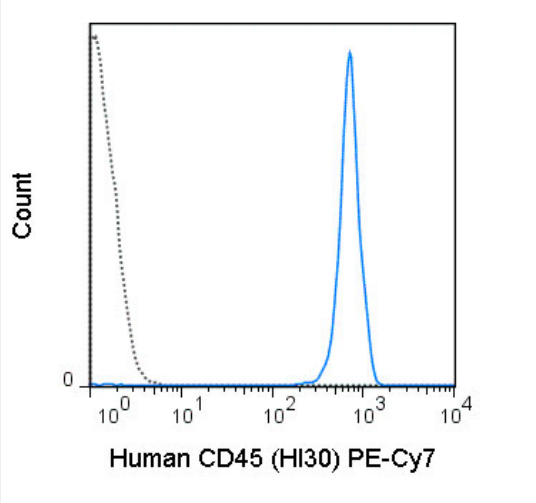
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PE-Cy7 Anti-Human CD45 (HI30) Antibody - Images



Human peripheral blood lymphocytes were stained with 5 uL (0.25 ug) PE-Cy7 Anti-Human CD45 (ATB10252) (solid line) or 0.25 ug PE-Cy7 Mouse IgG1 isotype control (dashed line).

PE-Cy7 Anti-Human CD45 (HI30) Antibody - Background

The HI30 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, CD45RO and others.The HI30 antibody is widely used as a marker for human CD45 expression on T cells, B cells, monocytes, macrophages, and NK cells.