



## CD45 Antibody [HI30] (PE-Cy7)

CATALOG NUMBER: 76-449

### Specifications

<b>SPECIES REACTIVITY:</b>	Human
<b>TESTED APPLICATIONS:</b>	FACS
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>SPECIFICITY:</b>	The HI130 monoclonal antibody specifically reacts with the 180 kDa, 190 kDa, 205 kDa, and 220 kDa isoforms of the human leukocyte common antigen (LCA) CD45.
<b>HOST SPECIES:</b>	Mouse

### Properties

<b>PURIFICATION:</b>	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
<b>PHYSICAL STATE:</b>	liquid
<b>BUFFER:</b>	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
<b>CONCENTRATION:</b>	5 uL (0.25 ug) / test
<b>STORAGE CONDITIONS:</b>	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	Mouse IgG1, kappa
<b>CONJUGATE:</b>	PE-Cy7

### Additional Info

<b>ALTERNATE NAMES:</b>	LCA, LY5, B220, CD45, L-CA, T200, CD45R, GP180, PTPRC
<b>OFFICIAL SYMBOL:</b>	PTPRC
<b>GENE ID:</b>	5788

### Background

<b>BACKGROUND:</b>	The HI130 monoclonal antibody specifically reacts with the 180 kDa, 190 kDa, 205 kDa, and 220 kDa isoforms of the human leukocyte common antigen (LCA) CD45. It is expressed on lymphocytes, granulocytes, monocytes, thymocytes, and eosinophils, but not on mature erythrocytes, platelets, mature erythroid cells of bone marrow, and non-hematopoietic tissues. CD45 is essential for T cell activation and the tyrosine phosphatase activity of its intracellular region is integral for signal transduction.
<b>REFERENCES:</b>	<p>1) Knapp W(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.</p> <p>2) Ninomiya, M., Abe, A., Katsumi, A., Xu, J., Ito, M., Arai, F., ... Naoe, T. (2006). Homing, proliferation and survival sites of human leukemia cells in vivo in immunodeficient mice. <i>Leukemia</i>, 21(1), 136-142.</p> <p>3) Yoshino, N., AMI, Y., TERAQ, K., TASHIRO, F., HONDA, M. (2000). Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (<i>Macaca fascicularis</i>) by using anti-human cross-reactive antibodies. <i>Experimental Animals</i>, 49(2), 97-110.</p>

FOR RESEARCH USE ONLY

