



## Mouse Anti Human CD45 PE-Cy5

### PRODUCT INFORMATION

**CLONE:** HI30  
**ISOTYPE:** Mouse IgG1,  $\kappa$   
**WS.No.:** IV N816  
**CATALOG#:** A6706/A6716  
**CONTENTS:** PE-Cy5 conjugated antibody buffered in 10mM PBS (pH 7.0) with 0.05%  $\text{NaN}_3$  and 1% BSA.

### DESCRIPTION

CD45 McAb recognizes 180, 190, 205 and 220KD long single chain type I transmembrane glycoprotein called leukocyte common antigen (LCA). LCA is typically at high levels on all nucleated hematopoietic cells including bone marrow cells, thymocytes, lymphocytes, monocytes, granulocytes, but not on mature erythrocytes, platelets and non-hematopoietic tissues and cells. CD45 is critically required for T and B cell antigen receptor-mediated activation.

### PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with PE-Cy5 under optimum conditions.

### USAGE

The PE-Cy5 conjugation is tested for flow cytometric analysis using  $20\mu\text{l}/10^6$  cells or  $100\mu\text{l}$  peripheral blood cells.

### STORAGE

Store at  $4^\circ\text{C}$ , should not be frozen and avoid prolonged exposure to light.

### REFERENCES

1. Shen DC., Chen Z., Bai JF., et al., 1991. Properties and preliminary application of three monoclonal antibodies of non-lineage antigens- CD45, CD45R and CD53. *J. Monoclonal Antibody*. 7(1): 53
2. Knapp W., B.Dorcken, E.P.Rieber, et al., eds. 1989. *Leucocyte Typing IV: White Cell Differentiation Antigens*. P: 628, 1086 Oxford University Press, New York.
3. Tadimitsu K, K.Hitoshi, A.E.G.Kr.van dem Borne, et al., eds. 1997. *Leucocyte Typing VI: White Cell Differentiation Antigens*. P: 499—501, 1144 Garland Publishing, Inc., New York.

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