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# PE/Cyanine7 Anti-Mouse CD45 Antibody[30-F11]

Catalog Number: E-AB-F1136UH

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Reactivity Mouse Host Rat

**Isotype** Rat IgG2b, κ **Clone No.** 30-F11

**Isotype Control** PE/Cyanine7 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09843H]

Conjugation PE/Cyanine 7

Conjugation Information PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and

yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm

(e.g., a 780/60 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

#### Applications Recommended usage

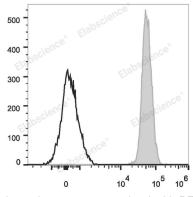
**FCM** Each lot of this antibody is quality control tested by flow cytometric analysis. Please

check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the

reagent to obtain optimal results [The recommended concentration is 0.1-1  $\mu g/10^6$  cells

in 100 µL volume].

## Data



C57BL/6 murine splenocytes are stained with PE/Cyanine7 Anti-Mouse CD45 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

#### **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

#### **Antigen Information**

Alternate Names CD45;L-CA;Ly-5;Ptprc;Receptor-type tyrosine-protein phosphatase C;T200

 Uniprot ID
 P06800

 Gene ID
 19264

# For Research Use Only

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# Background

Elabscience®

CD45 is a 180-240 kD glycoprotein also known as the leukocyte common antigen (LC A), T200, or Ly-5. It is a member of the protein tyrosine phosphatase (PTP) family, expressed on all hematopoietic cells except mature erythrocytes and platelets. There are different isoforms of CD45 that arise from alternative splicing of exons 4, 5, and 6, which encode A, B, and C determinants, respectively. CD45 plays a key role in TCR and BCR signal transduction. These isoforms are very specific to the activation and maturation state of the cell as well as cell type. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4, TCR, CD22, and Thy-1.

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