

## Technical Data Sheet

### Anti-Human CD45

**Catalog Number:** 101801, 101802

**Size:** 100 ug, 500 ug

**Target Name:** CD45, Leukocyte Common Antigen (LCA), T200

**Regulatory Status:** RUO

#### Product Details

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**Clone:** 045AB

**Application:** FC

**Reactivity:** Human

**Format:** Purified

**Isotype:** Rabbit IgG

**Antibody Type:** Monoclonal

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

**Protein Concentration:** 0.5 mg/mL

**Storage and Handling:** The antibody solution should be stored between 2°C and 8°C

**Recommended Usage:** For flow cytometric staining, it is recommended to use less than 0.2 ug of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application

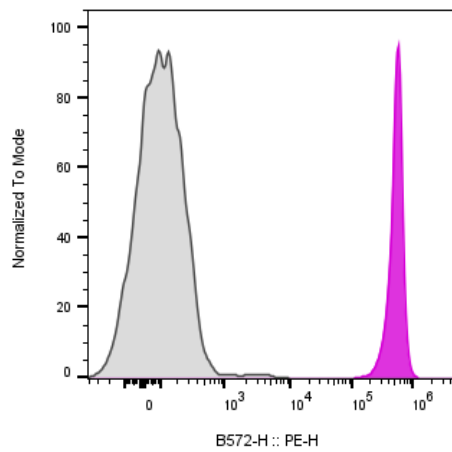
#### Background Information

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Protein tyrosine phosphatase, receptor type, C also known as PTPRC is an enzyme that, in humans, is encoded by the PTPRC gene. PTPRC is also known as CD45 antigen (CD stands for cluster of differentiation), which was originally called leukocyte common antigen (LCA). Leukocyte common antigen, a type I transmembrane protein present on all hemopoietic cells except erythrocytes that assists in cell activation; expressed in lymphomas, B-cell chronic lymphocytic leukemia, hairy cell leukemia, and acute nonlymphocytic leukemia. CD45 is a signaling molecule that regulates a variety of cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 plays a critical role in T and B cell antigen receptor-mediated activation by dephosphorylating substrates including p56Lck, p59Fyn, and other Src family kinases.

#### Product Data

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Human peripheral blood lymphocytes stained with either Anti-Human CD45 clone 045AB (purple histogram) or an isotype control (gray histogram), followed by PE conjugated anti-rabbit IgG.