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## 30-2425: Anti-CD45 / LCA Monoclonal Antibody (Clone:MEM-28)-PerCP Conjugated

Clonality: Monoclonal Clone Name: MEM-28

**Application :** FACS, IP, WB, IHC, ICC

Reactivity: Human

Conjugate: PerCP

Gene: PTPRC

Gene ID: 5788

Uniprot ID: P08575

Alternative Name: PTPRC,CD45

Isotype: Mouse IgG1

Immunogen Information: Human thymocytes and T lymphocytes.

## **Description**

CD45 (LCA, leukocyte common antigen) is a receptor-type protein tyrosine phosphatase ubiquitously expressed in all nucleated hematopoietic cells, comprising approximately 10% of all surface proteins in lymphocytes. CD45 glycoprotein is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases. CD45 protein exists as multiple isoforms as a result of alternative splicing; these isoforms differ in their extracellular domains, whereas they share identical transmembrane and cytoplasmic domains. These isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. Besides the role in immunoreceptor signaling, CD45 is important in promoting cell survival by modulating integrinmediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis.

## **Product Info**

Amount: 100 tests

**Storage condition :** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

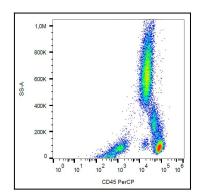


Figure 1: Surface staining of human peripheral blood cells with anti-human CD45 (MEM-28) PerCP.