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30-2443: Anti-CD45 Monoclonal Antibody (Clone:EM-05)-PerCP Conjugated

Clonality :	Monoclonal
Clone Name :	EM-05
Application :	FACS, IP, WB, ICC
Reactivity :	Mouse
Conjugate :	PerCP
Gene :	Ptprc
Gene ID :	19264
Uniprot ID :	P06800
Alternative Name :	Ptprc,Ly-5
Isotype :	Rat IgG
Immunogen Information :	Murine peripheral blood leukocytes

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 integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis.

Product Info

Amount :	0.1 mg
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

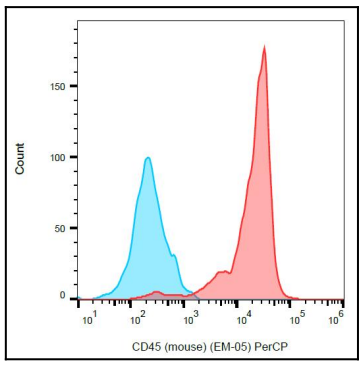

Figure 1: Surface staining of murine splenocytes with anti-CD45 antibody EM-05 PerCP.

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