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30-1487: Anti-CD45 Monoclonal Antibody (Clone:HI30)

Clonality: Monoclonal

Clone Name: HI30

Application : FACS, IP, WB, IHC, IHC-Fr, ICC, Functional Assay

Reactivity: Human, Non-Human Primates

Gene : PTPRC
Gene ID : 5788
Uniprot ID : P08575
Format : Purified
Alternative Name : PTPRC,CD45
Isotype : Mouse IgG1

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: 0.1 mg

Purification : Purified by protein-G affinity chromatography

Storage condition : Store at 2-8°C. Do not freeze.

Application Note

Flow Cytometry Immunoprecipitation Western Blotting Immunohistochemistry Immunohistochemistry (frozen sections) Immunocytochemistry Functional Application blocking CD45 functions