

## anti-human CD45 no azide

monoclonal antibody MEM-28 to human CD45

Cat-No: **21270450**

100 µg in 100 µl

**Clone:** MEM-28

**Specificity:** The antibody MEM-28 reacts with all alternative forms of human CD45 antigen (Leukocyte Common Antigen), a 180-220 kDa single chain type I transmembrane protein expressed at high level on all cells of hematopoietic origin, except erythrocytes and platelets.

**HLDA III; WS Code NL 833a**

**Isotype subclass:** Mouse IgG1

**Form:** Purified from cell culture supernatant by Protein-A affinity chromatography.

**Purity:** > 95% (by SDS-PAGE)

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS (pH 7.2), sterile

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at -20°C. Avoid freeze and thaw cycles. Should be handled under aseptic conditions.

**Application:** Functional Application

### References:

Horejsi V. et al., Folia Biol. (Praha) 34, 23 (1988)

Bazil Vet al., Immunogenetics 29, 202 (1989)

Leucocyte Typing III. McMichael A.J. et al (Eds), Oxford University Press (1987)

Leucocyte Typing IV. Knapp W. et al.(Eds), Oxford University Press (1989)

**Background: 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.

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