

Product datasheet for AM26024PP-N

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CD45 / LCA Rat Monoclonal Antibody [Clone ID: EM-05]

Product data:

Product Type: Primary Antibodies

Clone Name: EM-05

Applications: FC

Recommended Dilution: Flow cytometry: 4 µg/ml as starting point.

Reactivity: Mouse **Host:** Rat

Isotype: IgG

Clonality: Monoclonal

Immunogen: Murine peripheral blood leukocytes

Specificity: The antibody reacts with CD45 antigen (Leukocyte Common Antigen), a single chain type I

transmembrane protein expressed at high level on cells of hematopoietic origin, except

erythrocytes and platelets.

Formulation: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Label: PerCP

State: Liquid Ig fraction

Label: Conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum

conditions. The conjugate is purified by size-exclusion chromatography.

Concentration: lot specific

Conjugation: PerCP

Storage: Store undiluted at 2-8°C. DO NOT FREEZE! This products is photosensitive and should be

protected from light.

Stability: Shelf life: one year from despatch.

Gene Name: protein tyrosine phosphatase, receptor type, C

Database Link: Entrez Gene 19264 Mouse

P06800





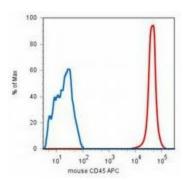
Background:

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.

Synonyms:

PTPRC, Leukocyte common antigen, L-CA, T200

Product images:



Surface staining of mouse blood lymphocytes with anti-CD45 antibody EM-05-APC.