

Product datasheet for **AM26024AC-N**

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: Use at 4 µg/ml.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Murine peripheral blood leukocytes
Specificity:	The antibody EM-05 reacts with Mouse 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:	PBS Label: APC State: Liquid purified Ig fraction Preservative: 15mM Sodium Azide Label: Conjugated with cross-linked Allophycocyanin (APC) under optimum conditions
Concentration:	lot specific
Purification:	Size-Exclusion Chromatography
Conjugation:	APC
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



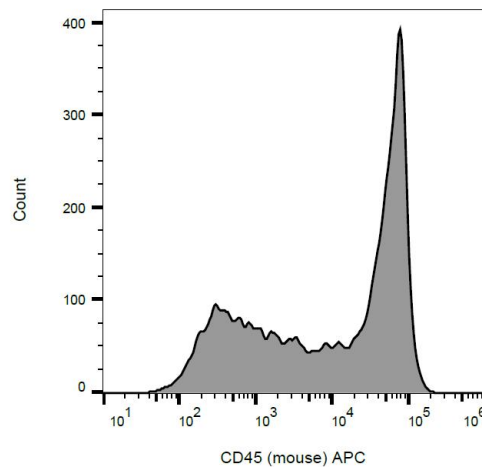
[View online »](#)

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 murine splenocytes with anti-CD45 antibody EM-05 APC.