

Product datasheet for AM08063FC-N

OriGene Technologies, Inc.

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CD45 / LCA (CD45.2 alloantigen) Mouse Monoclonal Antibody [Clone ID: 104]

Product data:

Product Type: Primary Antibodies

Clone Name: 104
Applications: FC, IF

Recommended Dilution: Flow Cytometry: < / = 1 μ g/10e6 cells. (Ref.3,4)

Fluorescence Microscopy. (Ref.3,4)

Reactivity:MouseHost:MouseIsotype:IgG2a

Clonality: Monoclonal

Specificity: This monoclonal antibody recognizes CD45 (Leukocyte Common Antigen) on all leukocytes of

mouse strains expressing the CD45.2 allotype (e.g. A, AKR, BALB/c, CBA/Ca, CBA/J, C3H/He,

C57BL, C57BR, C57L, C58, DBA/1, DBA/2, NZB, SWR, 129).

Formulation: PBS containing 0.09% Sodium Azide as preservative.

Label: FITC

State: Liquid purified Ig fraction.

Label: Fluorescein Isothiocyanate Isomer 1

Concentration: lot specific

Conjugation: FITC

Storage: Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer.

This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: protein tyrosine phosphatase, receptor type, C

Database Link: Entrez Gene 19264 Mouse

P06800





Background:

The CD45 antigen is an essential regulator of leukocyte activation and development, and is now known to be a protein tyrosine phosphatase, e.g. CD45 is able to dephosphorylate the Src family of protein kinases. (Ref.1,2)

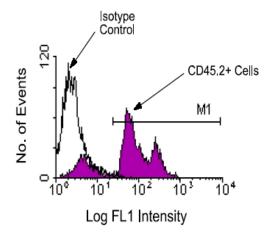
This activity is now known to be required for signal transduction induced by T and B cell antigen receptor engagement, cytokine signaling and Fc receptor stimulation. (Ref.1,2) The functional state of CD45 also has a pronounced effect on lymphocyte development. CD45 exists in multiple forms, such as the restricted variants (CD45R; see companion products AM08044, AM08045, AM08046) and as allelic forms CD45.1/Ly-5.1 and CD45.2/Ly-5.2. The former

arises as a result of alternative splicing of different exons. The specificity of antibodies to CD45.1 and CD45.2 has been exploited in studies where resolution of donor and recipient cells is essential, such as in gene therapy or bone marrow transplantation. (Ref.3,4)

Synonyms:

PTPRC, Leukocyte common antigen, L-CA, T200

Product images:



Immunofluorescent Staining: BALB/c bone marrow cells were stained with anti-Mouse CD45.2-FITC, following which small lymphocytes were gated and analyzed on a FACScan (TM) flow cytometer (BDIS, San Jose, CA). Amount Used: < / = 1 g/10e6 cells.