

Product Data Sheet

PE anti-human CD45RB

Catalog # / Size: 310204 / 100 tests

Clone: MEM-55

Isotype: Mouse IgG2b, κ

Workshop Number: V CD45.08

Immunogen: Human thymocytes and T lymphocytes

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with

PE under optimal conditions. The solution is free of unconjugated PE and

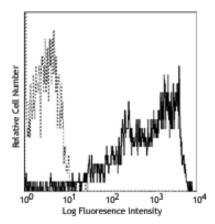
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Human peripheral blood lymphocytes stained with MEM-55 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test

size products are transitioning from 20 μ l to 5 μ l per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at

www.biolegend.com/testsize regarding the test size change.

Application Notes: The MEM-55 antibody is specific for a glycosylated-CD45RB epitope that is highly expressed on memory B cells and

plasmablasts but not on naïve B cells. Additional reported applications (for the relevant formats) include:

immunoprecipitation, Western blotting, and immunohistochemical staining of formalin-fixed paraffin-embedded tissue

Application References: 1. Horejsi V, et al. 1988. Folia Biol. 34:23. 2. Bazil V, et al. 1989. Immunogenetics 29:202.

3. Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press. New York.

4. Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.

5. Koethe S, et al. 2011. J. Leukoc. Biol. 90:5.

Description: CD45RB is a 180-240 kD single chain type I membrane glycoprotein. It is an exon 5 splice variant of the tyrosine

phosphatase CD45. The CD45RB isoform is expressed on thymocytes, T cell subsets, B cells,

monocytes/macrophages, granulocytes, and dendritic cells. CD45RB enhances both T cell receptor and B cell receptor signaling mediated activation. CD45 and its isoforms non-covalently associate with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4. CD45 has also been reported to bind

galectin-1. CD45 isoform expression can change in response to cytokines. The MEM-55 antibody recognizes a

silaidase-sensitive epitope of CD45.

Antigen References: 1. Thomas M. 1989. Annu. Rev. Immunol. 7:339.

2. Trowbridge I, et al. 1994. Annu. Rev. Immunol.12:85.

Application **Related Products: Product** Clone

PE anti-human CD45RA HI100 PE anti-human CD45 PE anti-human CD45RO HI30 UCHL1 PE Mouse IgG2b, κ Isotype Ctrl FC, ICFC MPC-11

Cell Staining Buffer RBC Lysis Buffer (10X)

FC, ICC, ICFC FC, ICFC Human TruStain FcX™ (Fc Receptor Blocking Solution) FC, ICC, ICFC



