SONY

Product Data Sheet

PE/Cy7 anti-rat CD45RA

Catalog # / Size: 1611575 / 25 µg
1611580 / 100 µg

Clone: OX-33

Isotype: Mouse IgG1, κ

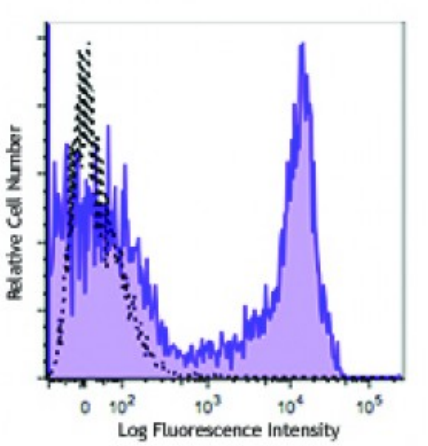
Immunogen: Leukocyte common antigen purified from rat splenocytes.

Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

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

Concentration: 0.2



LOU rat splenocytes were stained with CD45RA (clone OX-33) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections1.

Application References:

1. Smith T, *et al.* 2000. *Nature Med.* 6:62. (IHC)

Description: CD45 is a protein tyrosine phosphatase with multiple isoforms differing as a result of alternative splicing of the extracellular domain and glycosylation. CD45 is expressed on all hematopoietic cells except erythrocytes and platelets. CD45RA is one of the CD45 isoforms with a molecular weight of 200-220 kD. It is expressed almost exclusively on B cells. CD45 functions in signal transduction through T and B cell antigen receptors. CD45 has been shown to interact with various proteins, including galectin-1, CD2, CD3, and CD4.

Antigen References:

1. Sunderland CA, *et al.* 1979. *Eur. J. Immunol.* 9:155.
2. Woolett GR, *et al.* 1985. *Eur. J. Immunol.* 15:168.