SONY

Product Data Sheet

PE anti-mouse CD45

Catalog # / Size: 1338560 / 200 µg
1338555 / 50 µg

Clone: I3/2.3

Isotype: Rat IgG2b

Immunogen: Mouse lymphoma cell line

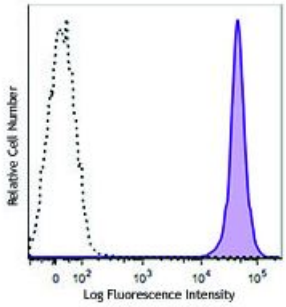
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.

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

Workshop Number: VII 70312

Concentration: 0.2



C57BL/6 splenocytes were stained with CD45 (clone I3/2.3) PE (filled histogram) or rat IgG2b PE 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 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of paraffin embedded sections1 and frozen tissue sections2.

Application References:

1. Kliment C, *et al.* 2009. *J. Mol. Cell Cardiol.* 47:730. (IHC)
2. Reynolds JM, *et al.* 2007. *J. Immunol.* 179:313. (IHC)

Description: CD45 is a 180-240 kD glycoprotein also known as the leukocyte common antigen (LCA), T200, or Ly-5. It is a member of the protein tyrosine phosphatase (PTP) family, expressed on all hematopoietic cells except mature erythrocytes and platelets. There are different isoforms of CD45 that arise from alternative splicing of exons 4, 5, and 6, which encode A, B, and C determinants, respectively. CD45 plays a key role in TCR and BCR signal transduction. These isoforms are very specific to the activation and maturation state of the cell as well as cell type. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4, TCR, CD22, and Thy-1.

Antigen References:

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Trowbridge IS and Thomas ML. 1994. Annu. Rev. Immunol. 12:85.
3. Kishihara K, *et al.* 1993. *Cell* 74:143.
4. Pulido R, *et al.* 1988. *J. Immunol.* 140:3851.

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