SONY

Product Data Sheet

FITC anti-mouse CD45

Catalog # / Size: 1386070 / 100 µg
1386065 / 25 µg

Clone: S18009F

Isotype: Rat IgG2b, κ

Immunogen: Recombinant mouse CD45

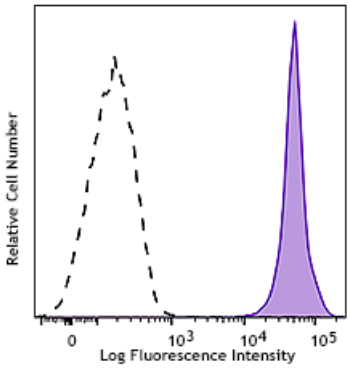
Reactivity: Mouse

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

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

Workshop Number: V-CD28.05

Concentration: 0.5



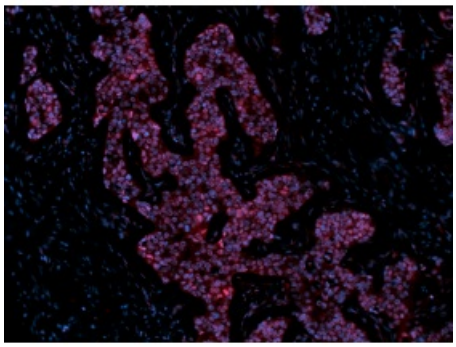
C57BL/6 mouse splenocytes were stained with anti-mouse CD45 (clone S18009F) FITC (filled histogram) or FITC rat IgG2b, κ isotype control (open histogram).

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: Clone S17016D cross-blocks anti-mouse NK1.1 clone PK136, and can stain for NK1.1 post-formaldehyde and methanol-based fixation based on in-house testing.



Bend.3 mouse endothelial cells were stained with CD63 (clone NVG-2) FITC (filled histogram) or rat IgG2a, κ FITC isotype control (open histogram).

Application References:

1. Sacco P, *et al.* 1995. *J. Biol. Chem.* 270:20201. (WB)
2. Johnson KR, *et al.* 1993. *Exp. Cell Res.* 207:252.
3. Gupta K, *et al.* 2012. *J. Ped. Hem. Onc.* 34:320. (IHC-P)
4. Radice G, *et al.* 1997. *Dev. Bio.* 181:64. (IHC-P)

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 variable 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.

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Antigen References:

1. Barclay A, *et al.* 1997. *The Leukocyte Antigen FactsBook Academic Press.*
2. Trowbridge IS, *et al.* 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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