

DESCRIPTION

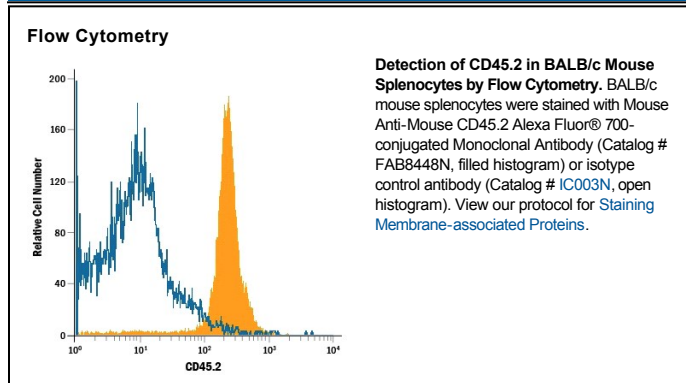
| | |
|---------------------------|--|
| Species Reactivity | Mouse |
| Specificity | Detects mouse cells expressing the CD45.2 allotype in flow cytometry. Clone 104 does not detect the mouse CD45.1 alloantigen. |
| Source | Monoclonal Mouse IgG _{2A} Clone # 104 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | B10.S mouse thymocytes and splenocytes |
| Conjugate | Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm |
| Formulation | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|-----------------------|----------------------------------|---------------|
| Flow Cytometry | 5 µL/10 ⁶ cells | See Below |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|---|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. ● 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

CD45, previously called LCA (Leukocyte Common Antigen), T200, or Ly5 in mice, is member C of the Class 1 (Receptor-like) Protein Tyrosine Phosphatase family (PTPRC) (1, 2). It is a variably glycosylated 180-220 kDa transmembrane protein that is abundantly expressed on all nucleated cells of hematopoietic origin (1-3). CD45.2 is an alloantigen of CD45 expressed by Ly5.2+ mouse strains including: AKR, BALB/c, CBA/Ca, CBA/J, C3H/He, C57BL, C57BR, C57L, C58, DBA/1, DBA/2, NZB, SWR, and 129.

References:

1. Anderson, J.N. *et al.* (2004) *FASEB J.* **18**:8.
2. Streuli, M. *et al.* (1987) *J. Exp. Med.* **166**:1548.
3. Hermiston, M.L. *et al.* (2003) *Annu. Rev. Immunol.* **21**:107.

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