Mouse CD45.2
Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 104

Catalog Number: FAB8448G
25 Tests

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 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

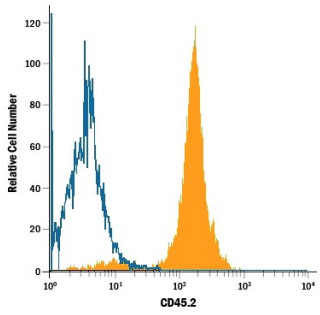
APPLICATIONS

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

Flow Cytometry



Detection of CD45.2 in BALB/c Mouse Splenocytes by Flow Cytometry. BALB/c mouse splenocytes were stained with Mouse Anti-Mouse CD45.2 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB8448G, filled histogram) or isotype control antibody (Catalog # IC003G, open histogram). View our protocol for Staining Membrane-associated Proteins.

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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