

DESCRIPTION

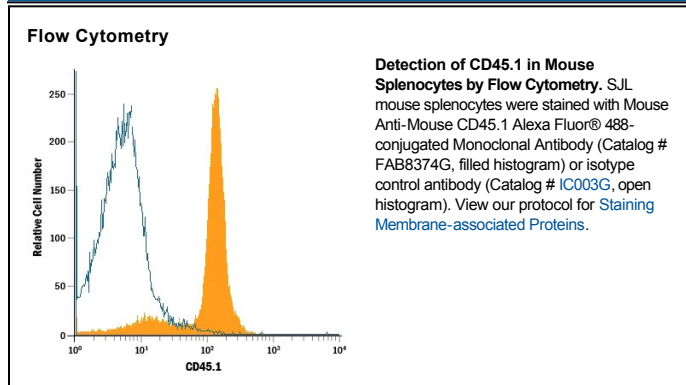
Species Reactivity	Mouse
Specificity	Detects mouse cells expressing the CD45.1 allotype in flow cytometry. Clone A20 does not detect the mouse CD45.2 alloantigen.
Source	Monoclonal Mouse IgG _{2A} Clone # A20
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	SJL mouse 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



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). CD45.1 is an alloantigen of CD45, expressed by Ly5.1 bearing mouse strains (RIII, SJL/J, STS/A, DA).

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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