

#### DESCRIPTION

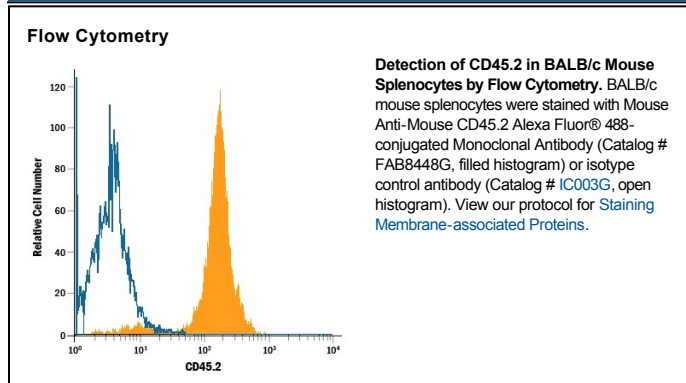
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse cells expressing the CD45.2 allotype in flow cytometry. Clone 104 does not detect the mouse CD45.1 alloantigen.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 104
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	B10.S mouse thymocytes and splenocytes
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	5 µL/10 <sup>6</sup> cells	See Below

#### DATA



#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> ● 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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