

## DESCRIPTION

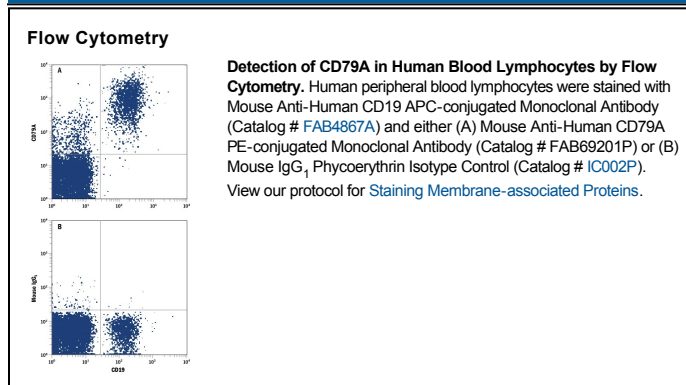
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD79A in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse CD79A is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 706931
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human CD79A Leu33-Arg143 Accession # P11912
<b>Conjugate</b>	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> 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

CD79A, also known as Ig $\alpha$  and MB-1, is a 44 kDa transmembrane glycoprotein in the immunoglobulin superfamily. It contains a single Ig-like domain in its extracellular region (ECD) and one cytoplasmic immunoreceptor tyrosine-based activation motif (ITAM). Alternate splicing generates a short isoform with a 39 aa deletion in the ECD. Heterodimers of CD79A and CD79B/Ig $\beta$  associate with a membrane bound immunoglobulin on the B cell surface to form the B cell Antigen Receptor Complex (BCR). CD79A and CD79B are required for BCR-mediated signaling and consequently for the development and activation of B lineage cells. Within the ECD, human CD79A shares 57% aa sequence identity with mouse and rat CD79A.