

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD79B in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse CD79B or recombinant human CD79A is observed.
<b>Source</b>	Monoclonal Mouse IgM Clone # 683023
<b>Purification</b>	IgM-specific Affinity-purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human CD79B Ala29-Asp159 Accession # P40259
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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>	0.25-1 µg/10 <sup>6</sup> cells	Human peripheral blood lymphocytes

#### 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> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

CD79B, also known as Igb and B29, is a 36 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 that lacks nearly the entire Ig-like domain. Heterodimers of CD79A/Iga and CD79B 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 (aa 29-159), human CD79B shares 54% aa sequence identity with mouse CD79B.

#### PRODUCT SPECIFIC NOTICES

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