

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD19.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 4G7-2E3R
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Human CCL cells
<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.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Human peripheral blood mononuclear cells (PBMCs)

## 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

CD19 is a 95 kDa transmembrane glycoprotein with two Ig-like C2-set domains. CD19 regulates B cell development and activation through interactions with CD21, CD22, and the B cell receptor. CD19 polymorphisms and up-regulation lead to the development of autoimmunity by promoting autoantibody production. Within the extracellular domain, human CD19 (Accession # P15391) shares 57% amino acid sequence identity with mouse and rat CD19.

## PRODUCT SPECIFIC NOTICES

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