

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Pax5/BSAP in direct ELISAs.
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 1207C
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Pax5/BSAP Thr141-His391 Accession # Q02548
<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.

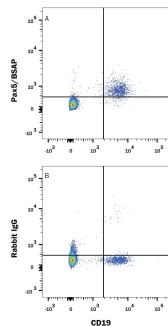
## APPLICATIONS

**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
Intracellular Staining by Flow Cytometry	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA

### Intracellular Staining by Flow Cytometry



**Detection of Pax5/BSAP in Human PBMCs by Flow Cytometry.**  
Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human CD19 APC-conjugated Monoclonal Antibody (Catalog # FAB4867A) and either (A) Rabbit Anti-Human Pax5/BSAP PE-conjugated Monoclonal Antibody (Catalog # IC3487P) or (B) Normal Rabbit IgG Phycoerythrin Control (Catalog # IC1051P). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). View our protocol for [Staining Intracellular Molecules](#).

## 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

Pax5, also known as BSAP (B-cell-specific transcription factor) is a 44-48 kDa monomeric protein that belongs to the paired box transcription factor family of molecules. Human Pax5 is 391 amino acids (aa) in length and contains the paired DNA-binding domain over aa 16-142. More than 10 alternatively spliced isoforms with MW ranging from 25-40 kDa have been reported that likely possess different transactivation properties. Splicing may involve all but the first N-terminal 70 aa. Pax5 is principally found in pro-B cells and mature B cells where it promotes a B cell phenotype at the expense of plasma cell formation. In conjunction with Bcl-6, Pax5 represses XBP-1 and Blimp-1 expression. Over aa 141-391, human Pax5 shares 99% aa sequences identity with mouse Pax5.