

## DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse FoxP3 in flow cytometry.
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 1054C
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human FoxP3 Met1-Leu71 Accession # Q9BZS1
<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	Intracellular Staining by Flow Cytometry
<p><b>Detection of FoxP3 in Human PBMC Natural Tregs by Flow Cytometry.</b> Human peripheral blood mononuclear cell (PBMC) natural regulatory T cells (Tregs) were surface stained with (A) Mouse Anti-Human CD4 Fluorescein-conjugated Monoclonal Antibody (Catalog # <a href="#">FAB3791F</a>) and (B) Mouse Anti-Human IL-2 R<math>\alpha</math> (CD25) APC-conjugated Monoclonal Antibody (Catalog # <a href="#">FAB1020A</a>), followed by intracellular staining using Rabbit Anti-Human/Mouse FoxP3 PE-conjugated Monoclonal Antibody (Catalog # IC8214P). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation &amp; Permeabilization Buffer Kit (Catalog # <a href="#">FC012</a>). Cells were gated on lymphocytes.</p>	<p><b>Detection of FoxP3 in C57BL/6 Mouse Splenocyte Natural Tregs by Flow Cytometry.</b> C57BL/6 mouse splenocyte natural regulatory T cells (Tregs) were surface stained with (A) Rat Anti-Mouse CD4 APC-conjugated Monoclonal Antibody (Catalog # <a href="#">FAB554A</a>) and (B) Rat Anti-Mouse IL-2 R<math>\alpha</math> (CD25) APC-conjugated Monoclonal Antibody (Catalog # <a href="#">FAB2438A</a>) followed by intracellular staining using Rabbit Anti-Human/Mouse FoxP3 PE-conjugated Monoclonal Antibody (Catalog # IC8214P). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation &amp; Permeabilization Buffer Kit (Catalog # <a href="#">FC012</a>). Cells were gated on lymphocytes.</p>

## 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

Human FoxP3 is a 47 kDa member of the P subclass of the FOX (forkhead box) family of transcription factors. It contains a Leu-rich repeat, a C2H2 zinc finger region, and a C-terminal FKH (fork head), DNA-binding domain. Three isoforms for FoxP3 have been reported. All three isoforms share the sequence used as the immunogen. FoxP3 directly associates with NFAT and NF $\kappa$ B, suppressing their activity in CD4<sup>+</sup> T cells. In human, FoxP3 is found in CD4<sup>+</sup>, CD8<sup>+</sup> and CD4<sup>+</sup>CD25<sup>+</sup> T cells. Over the region used for immunization of the amino acid sequence, mouse FoxP3 is 83% to 88% identical to rat, human, canine, and bovine FoxP3.