

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse FoxP3 in flow cytometry.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1054C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FoxP3 Met1-Leu71 Accession # Q9BZS1
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	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.

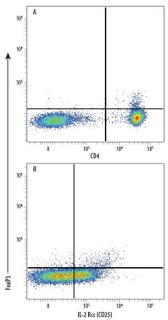
APPLICATIONS

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	5 µL/10 ⁶ cells	See Below

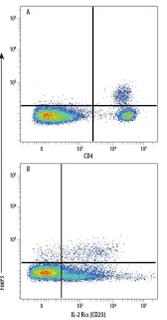
DATA

Intracellular Staining by Flow Cytometry



Detection of FoxP3 in Human PBMC Natural Tregs by Flow Cytometry. Human peripheral blood mononuclear cell (PBMC) natural regulatory T cells (Tregs) were surface stained with (A) Mouse Anti-Human CD4 PE-conjugated Monoclonal Antibody (Catalog # FAB3791P) and (B) Mouse Anti-Human IL-2 Rα (CD25) APC-conjugated Monoclonal Antibody (Catalog # FAB1020A), followed by intracellular staining using Rabbit Anti-Human/Mouse FoxP3 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # IC8214G). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). Cells were gated on lymphocytes.

Intracellular Staining by Flow Cytometry



Detection of FoxP3 in C57BL/6 Mouse Splenocyte Natural Tregs by Flow Cytometry. C57BL/6 mouse splenocyte natural regulatory T cells (Tregs) were surface stained with (A) Rat Anti-Mouse CD4 APC-conjugated Monoclonal Antibody (Catalog # FAB554A) and (B) Rat Anti-Mouse IL-2 Rα (CD25) APC-conjugated Monoclonal Antibody (Catalog # FAB2438A) followed by intracellular staining using Rabbit Anti-Human/Mouse FoxP3 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # IC8214G). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). Cells were gated on lymphocytes.

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

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 NFκB, suppressing their activity in CD4⁺ T cells. In human, FoxP3 is found in CD4⁺, CD8⁺ and CD4⁺CD25⁺ 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.

PRODUCT SPECIFIC NOTICES

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