

# Human/Mouse/Rat FoxP3 APC-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: IC3240A 100 TESTS

DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human FoxP3 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human FoxD3 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human FoxP3 Gln105-Lys200 Accession # Q9BZS1		
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 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 Shee (SDS) for additional information and handling instructions.		

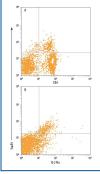
#### **APPLICATIONS**

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.

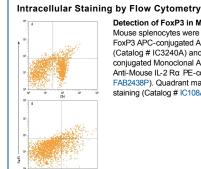
	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below

## DATA

# Intracellular Staining by Flow Cytometry



Detection of FoxP3 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Goat Anti-Human/Mouse/Rat FoxP3 APC-conjugated Antigen Affinity-purified Polyclonal Antibody (Catalog # IC3240A) and either (A) Mouse Anti-Human CD4 PerCP-conjugated Monoclonal Antibody (Catalog # FAB3791C) or (B) Mouse Anti-Human IL-2 Rα PE-conjugated Monoclonal Antibody (Catalog # FAB1020P). Quadrant markers were set based on control antibody staining (Catalog # IC108A).



Detection of FoxP3 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Goat Anti-Human/Mouse/Rat FoxP3 APC-conjugated Antigen Affinity-purified Polyclonal Antibody (Catalog # IC3240A) and either (A) Rat Anti-Mouse CD4 PerCP-conjugated Monoclonal Antibody (Catalog # FAB554C) or (B) Rat Anti-Mouse IL-2 Ra PE-conjugated Monoclonal Antibody (Catalog # FAB2438P). Quadrant markers were set based on control antibody staining (Catalog # IC108A).

# 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.

• 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 NFkB, 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.

