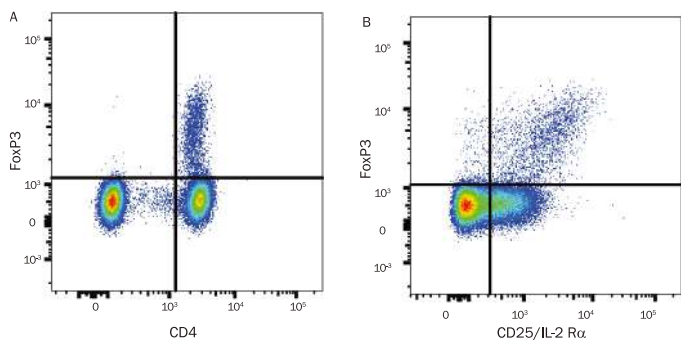


Regulatory T Cells Abs for Flow Cytometry

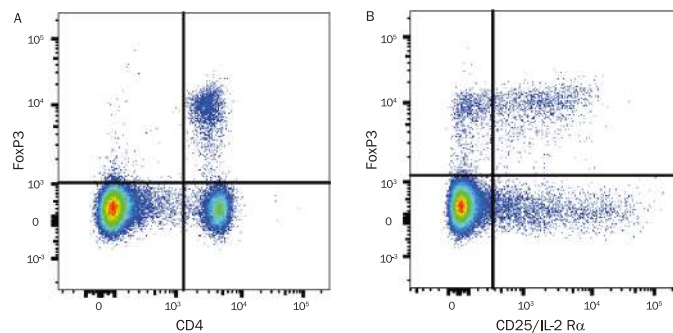


Molecule	Species	Fluorochrome-conjugated Antibodies for Flow Cytometry											
		Unconjugated	APC	Fluorescein	PE	PerCP	Alexa Fluor®						
							350	405	488	594	647	700	750
CD3	Human	●	●	●	●	●	●	●	●	●	●	●	●
	Mouse	●	●	●	●	●	●	●	●	●	●	●	●
CD4	Human	●	●	●	●	●	●	●	●	●	●	●	●
	Mouse	●	●	●	●	●	●	●	●	●	●	●	●
FoxP3	Human	●	●		●		●	●	●	●	●	●	●
	Mouse	●	●		●		●	●	●	●	●	●	●
CD25	Human	●	●		●		●	●	●	●	●	●	●
	Mouse	●	●		●		●	●	●	●	●	●	●
CD39	Human	●	●				●	●	●	●	●	●	●
	Mouse	●	●				●	●	●	●	●	●	●
CD73	Human	●	●		●		●	●	●	●	●	●	●
	Mouse	●	●	●			●	●	●	●	●	●	●
Neuropilin-1	Human	●	●	●	●		●	●	●	●	●	●	●
	Mouse	●	●	●	●		●	●	●	●	●	●	●
CTLA-4	Human	●	●		●		●	●	●	●	●	●	●
	Mouse	●					●	●	●	●	●	●	●



FoxP3⁺ Regulatory T Cells in Human PBMCs by Flow Cytometry

A) Fluorescein-conjugated Mouse Anti-Human CD4 Monoclonal Antibody (Catalog # FAB3791F) and B) APC-conjugated Mouse Anti-Human IL-2 R α /CD25 Monoclonal Antibody (Catalog # FAB1020A) followed by intracellular staining using a PE-conjugated Mouse Anti-Human/Mouse/Rat FoxP3 Antigen Affinity-purified Monoclonal Antibody (Catalog # IC8970P)



FoxP3⁺ Regulatory T Cells in Mouse Splenocytes by Flow Cytometry

A) Alexa Fluor® 488-conjugated Rat Anti-Mouse CD4 Monoclonal Antibody (Catalog# FAB554G) and B) APC conjugated Rat Anti-Mouse IL-2 R α /CD25 Monoclonal Antibody (Catalog#FAB2438A), followed by intracellular staining using a PE-conjugated Mouse Anti-Human/Mouse/Rat FoxP3 Monoclonal Antibody (Catalog # IC8970P)

Mechanisms of Regulatory T Cell-mediated Suppression

- ⑩ CTLA-4-dependent Suppression
 - CTLA-4 interacts with B7 (CD80 and CD86) on DCs, triggering indoleamine 2, 3-dioxygenase (IDO) expression (which is also induced by IFN- γ -receptor stimulation)
 - IDO catabolizes tryptophan, depleting stores needed for T_{eff} cell proliferation, and producing the pro-apoptotic metabolite N-formylkynurenine
- ⑨ Binding of LAG-3 to MHC II
 - Induces an immunoreceptor tyrosine-based activation motif (ITAM)-mediated inhibitory signaling pathway, blocking the maturation and immunostimulatory capacity of DCs
- ⑧ Granzyme A/B Secretion
 - Granzyme A/B induces apoptosis in DCs and T_{eff} cells in both a perforin-dependent and -independent manner
- ⑦ Induction of Infectious Tolerance
 - In mice, membrane-associated LAP-TGF- β 1 converts non-T_{reg} cells into functional, FoxP3-expressing T_{reg} cells

