

Physiological T cell activation/expansion

Product guide



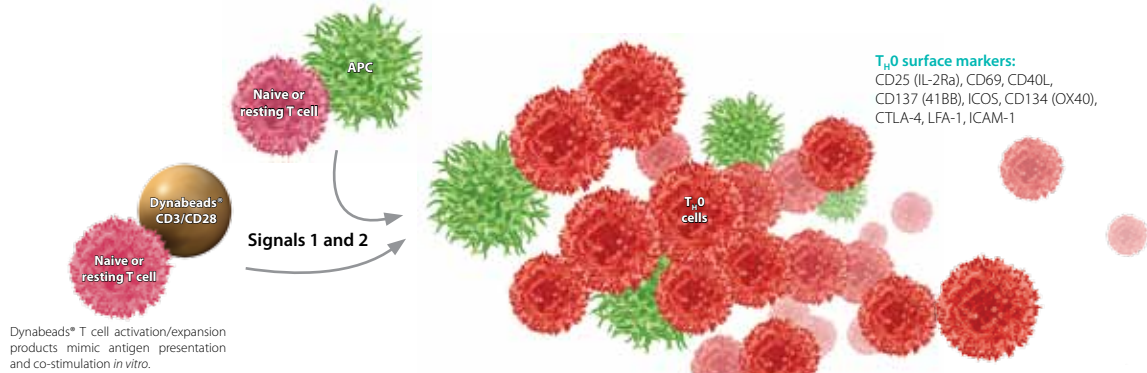
Dynabeads® T cell activation/expansion technology mimics *in vivo* activation and expansion. Our superior tools are available for basic and clinical research involving mouse or human T cells. Find the ideal tool at www.invitrogen.com/cellexpansion.

Product	Species	Ab clones	Features		Recommended starting sample	For activation/expansion of						Cat. no.	Notes
			Isolation	Activation Expansion		Leukopheresis product/ elutriation	MNC/PBMC from whole blood or buffy coat	CD3 ⁺ T cells, CD4 ⁺ or CD8 ⁺ T cell subsets, Treg cells, T cell clones	CD3 ⁺ T cells	Naive T cells	Activated T cells (CD4 ⁺ or CD8 ⁺)		
Dynabeads® Mouse T-Activator CD3/CD28	Mouse		●	●	●	●	●	●	●	●	○	114-56D (0.4 mL) 114-52D (2 mL) 114-53D (10 mL)	Ideal for activation/expansion of mouse T cell subsets (research use)
Dynabeads® Human T-Activator CD3/CD28	Human		●	●	●	●	●	●	●	●	●	111-61D (0.4 mL) 111-31D (2 mL) 111-32D (10 mL)	Ideal for activation/expansion of antigen-specific human T cells (research use)
Dynabeads® Human Treg Expander	Human		●	●							●	111-29D (2 mL)	Optimized to retain suppressive phenotype and capacity in expansion of Treg cells
Dynabeads® Human T-Expander CD3/CD28	Human		● ¹	● ²	●	●	●	● ^{4,5}		● ⁶	● ⁷	111-41D (10 mL)	The research version of Dynabeads® <i>ClinExVivo</i> [™] CD3/CD28; intended for preclinical research applications
Dynabeads® Human <i>ClinExVivo</i> [™] CD3/CD28	Human		● ¹	● ²	●			● ^{4,5}		● ⁶	● ⁷	402-03D (10 mL)	Intended for clinical research applications

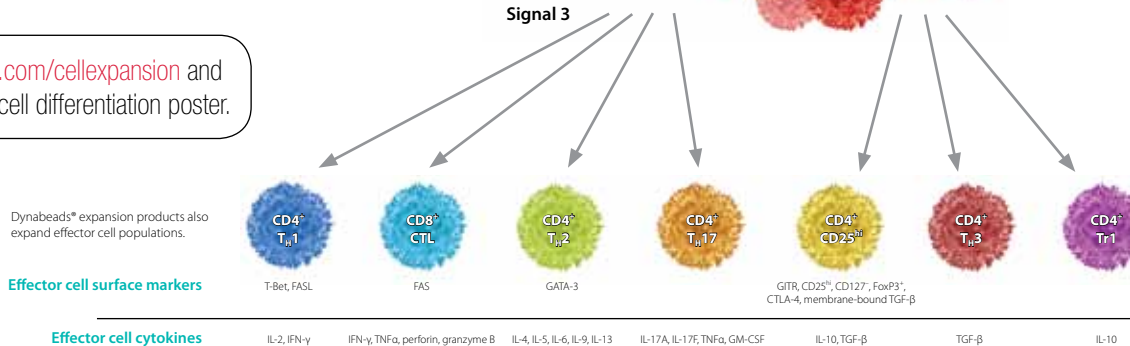
1. Bonyhadi, M. et al. (2005) *J Immunol* 174:2366–2375.
2. Coito, S. et al. (2004) *Stem Cells Dev* 13:71–81.
3. Berger, C. et al. (2003) *Blood* 101:476–484.
4. Kalamasz, D. et al. (2004) *J Immunother* 27:405.
5. Levine, B.L. et al. (2002) *Nat Med* 8:47–53.
6. Rapoport, A.P. et al. (2005) *Nat Med* 11:1162–1163.
7. Earle, K.E. et al. (2005) *Clin Immunol* 115:3–9.

● See product package insert or visit www.invitrogen.com/cellexpansion for protocols and references.
○ Unpublished data.

Dynabeads® T cell activation and expansion



Visit www.invitrogen.com/cellexpansion and sign up for a free T cell differentiation poster.



Dynal® provides magnetic separation technology that brings significantly greater reproducibility and flexibility to cell and biomolecule isolation.