

Isolate flow-compatible mouse CD4⁺ T cells

Dynabeads[®] FlowComp[™] Mouse CD4

- Compatible with flow cytometry analysis
- No risk of your results being affected by the isolation method
- Tube-based method—no columns needed
- High purity and yield

Dynabeads[®] FlowComp[™] Mouse CD4 is an easy-to-use kit for positive isolation of flow-compatible CD4⁺ T cells by magnetic separation. Isolate viable, bead-free CD4⁺ T cells for direct use in any cell-based assay. The isolation method utilizes the gentle Dynabeads[®] technology (Figure 1), which ensures your cells are not exposed to the stress of being passed through a column. In addition, you avoid exposing your cells to potentially cytotoxic or immunogenic substances like iron oxides or dextrans, a problem lately recognized in work with biodegradable nanoparticles.^{1,2}

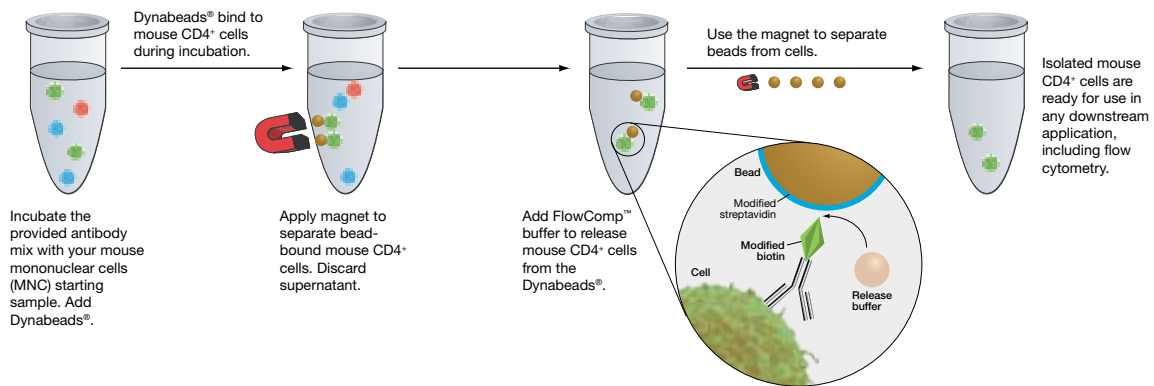


Figure 1—Overview of the Dynabeads[®] FlowComp[™] Mouse CD4 isolation procedure.



Positive Cell Isolation

High purity and viability, less stress to cells

Dynabeads® FlowComp™ Mouse CD4 is the stress-free way to positively isolate mouse CD4⁺ T cells. This method yields mouse CD4⁺ cells exhibiting high purity (>85%) and viability (>85%) (Figure 2). You will save time and money, and get increased confidence in your results.

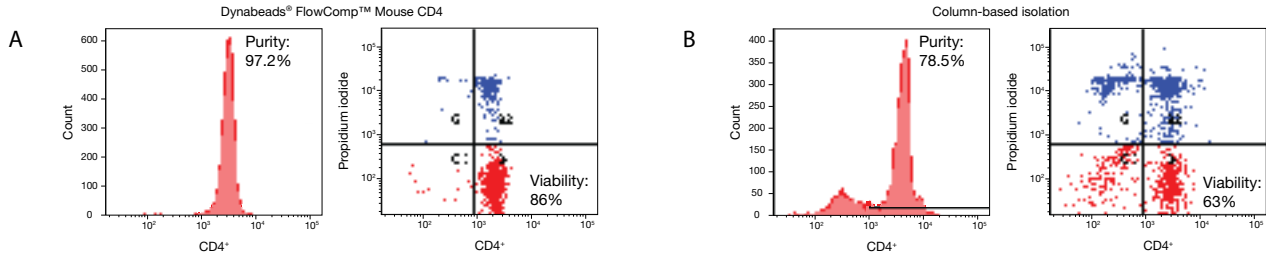


Figure 2—Highly pure and viable mouse CD4⁺ T cells isolated from spleen. Dynabeads® FlowComp™ Mouse CD4 yields cells with up to 97% purity and 86% viability (A), significantly higher than can be obtained using a column-based isolation method (B).

Ordering information

Product	Quantity	Cat. no.
Dynabeads® FlowComp™ Mouse CD4	Processes 2 x 10 ⁹ cells	114-61D
Related products		
Dynabeads® FlowComp™ Mouse CD8	Processes 2 x 10 ⁹ cells	114-62D
Dynabeads® FlowComp™ Human CD4	Processes 2 x 10 ⁹ cells	113-61D
Dynabeads® FlowComp™ Human CD8	Processes 2 x 10 ⁹ cells	113-62D
Dynabeads® Mouse CD3/CD28 T Cell Expander	2 ml	114-52D
Dynabeads® Mouse CD3/CD28 T Cell Expander	10 ml	114-53D
DynaMag™-15 (holds 4 standard 15 ml tubes, alternatively 4 x 5 ml tubes used in flow cytometry)	1 unit	123-01D
DynaMag™-50 (holds 2 x 5–50 ml tubes)	1 unit	123-02D
CD3, Hamster Anti-Mouse (Alexa Fluor® 488)	1 ml/100 µg	HM3420
CD4, Rat Anti-Mouse (R-PE)	0.5 ml/50 µg	MCD0404
CD62L, Rat Anti-Mouse (PE-TR)	0.5 ml/100 µg	RM4317
CD26, Mouse Anti-Human (PE-Cy®5.5)	0.5 ml/100 µg	CD2618
SYTOX® Red Dead Cell Stain	1 ml	S34859
Vybrant® Apoptosis Assay Kit #2	1 kit	V13241

For current prices, visit www.invitrogen.com.

Learn more about the best starting point for your T cell research at www.invitrogen.com/cellisolation.

References

1. Pisanic, T.R., II et al. (2007) *Biomaterials* 28:2572–2581.
2. Berry, C.C. et al. (2004) *Biomaterials* 25:5405–5413.

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



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