

# Isolate flow-compatible mouse CD8<sup>+</sup> T cells

## Dynabeads® FlowComp™ Mouse CD8

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

Dynabeads® FlowComp™ Mouse CD8 is an easy-to-use kit for positive isolation of flow-compatible CD8<sup>+</sup> T cells by magnetic separation. Isolate viable, bead-free CD8<sup>+</sup> T cells for direct use in any cell-based assay. This kit utilizes the gentle Dynabeads® technology (Figure 1), which avoids the stress of passing your cells through a column. In addition, you avoid exposing your cells to potentially cytotoxic or immunogenic substances like iron oxides or dextrans, a problem recently reported by scientists working with biodegradable nanoparticles.<sup>1,2</sup>

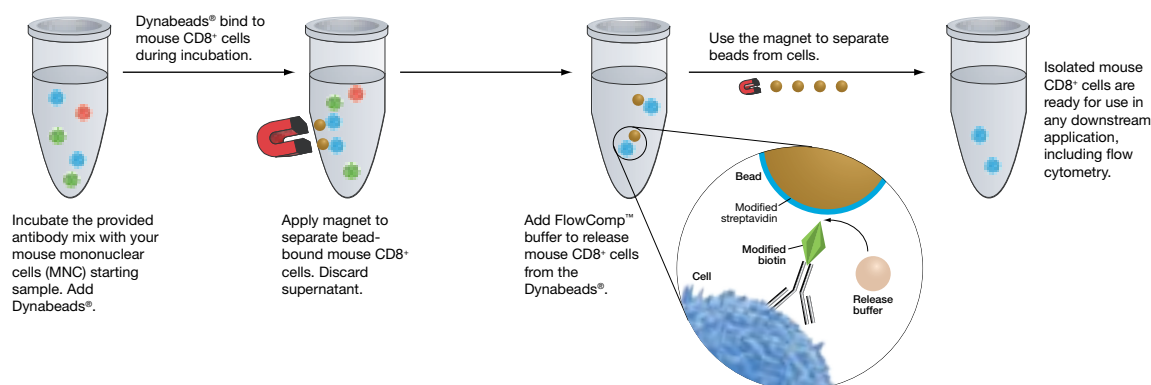


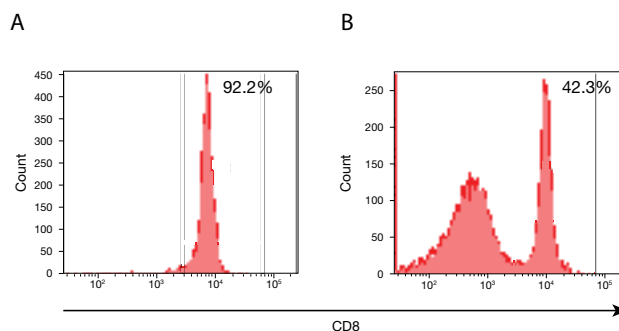
Figure 1—Overview of the Dynabeads® FlowComp™ Mouse CD8 isolation procedure.



## Positive Cell Isolation

### High purity and viability, less stress to cells

Dynabeads® FlowComp™ Mouse CD8 is the gentle and easy way to isolate mouse CD8<sup>+</sup> cells with high purity. While other cell isolation methods give 40–75% purity of mouse CD8<sup>+</sup> T cells, isolation with Dynabeads® FlowComp™ Mouse CD8 gives you >85% purity (Figure 2).



**Figure 2—Highly pure and viable mouse CD8<sup>+</sup> T cells isolated from spleen.** With Dynabeads® FlowComp™ Mouse CD8 you can expect >90% purity (A), significantly higher than yields obtained using a column-based isolation method (B).

### Ordering information

Product	Quantity	Cat. no.
Dynabeads® FlowComp™ Mouse CD8	Processes 2 x 10 <sup>9</sup> cells	114-62D
<b>Related products</b>		
Dynabeads® FlowComp™ Mouse CD4	Processes 2 x 10 <sup>9</sup> cells	114-61D
Dynabeads® FlowComp™ Human CD8	Processes 2 x 10 <sup>9</sup> cells	113-62D
Dynabeads® FlowComp™ Human CD4	Processes 2 x 10 <sup>9</sup> cells	113-61D
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
Dynabeads® Mouse CD3/CD28 T Cell Expander	2 ml	114-52D
Dynabeads® Mouse CD3/CD28 T Cell Expander	10 ml	114-53D
CD3, Hamster Anti-Mouse (Alexa Fluor® 488)	1 ml/100 µg	HM3420
Rat Anti-Mouse CD8a, Rat Anti-Mouse (R-PE)	0.5 ml/50 µg	MCD0404
SYTOX® Red Dead Cell Stain	1 ml	S34859
Vybrant® Apoptosis Assay Kit #2	1 kit	V13241
For current prices, visit <a href="http://www.invitrogen.com">www.invitrogen.com</a> .		

Learn more about the best starting point for your T cell research at [www.invitrogen.com/cellisolation](http://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.



[www.invitrogen.com](http://www.invitrogen.com)