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Invitrogen™

Dynabeads™ CD3

Dynabeads™ CD3 are superparamagnetic beads coupled with an anti-human CD3 antibody that enable easy isolation or depletion of human [Read more](#)

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Catalog number 11151D 

Price (EUR) / 5 mL
1.212,00

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depletion of human CD3⁺ T cells directly from any sample, including whole blood, bone marrow, buffy coat, mononuclear cells (MNC), and tissue digests. Advantages of Dynabeads™ CD3:

- Fast and efficient isolation of CD3⁺ T cells from any sample—no columns required
- High purity, yield, and viability of positively isolated CD3⁺ T cells for molecular downstream assays
- Fast and efficient depletion of CD3⁺ T cells from any sample

About Dynabeads™ CD3

Dynabeads™ CD3 are uniform, superparamagnetic beads (4.5 µm diameter) coated with a primary monoclonal antibody specific for the CD3 membrane antigen mainly expressed mainly on human mature T cells. Because of the bead size, Dynabeads™ CD3 can easily and efficiently isolate or deplete cells from viscous samples such as whole blood and bone marrow in about 30 minutes. Dynabeads™ CD3 will also afford excellent recovery of high-purity, viable cells for use in downstream molecular studies; for example, those in which cells are to be lysed while still attached to beads, and nucleic acids or proteins further purified. Note that intact cells will not be released from these beads, so if you want to isolate CD3⁺ cells for cell-based applications, or you need to check your samples with flow cytometry, check out our [total human T cell product offerings](#).

Magnetic bead-based separation offers easy handling

Dynabeads™ CD3 is added to the sample under continuous mixing to optimize the binding of the Dynabeads™ to the target cells. By placing the sample on a magnet, it separates the bead-bound target cells from the rest of the sample in just 1–2 minutes. For depletion, remove the supernatant to a new tube for further studies and discard the bead-bound cells. For positive isolation for molecular studies, remove the supernatant and wash the bead-bound cells 2–3 times in buffer to get optimal purity. The cells can be lysed while still attached to the beads and the supernatant transferred to a new tube for downstream molecular analysis. Starting samples can be whole blood, buffy coat, bone marrow, PBMC, or tissue digests.

Learn more about Dynabeads™ products

- Find [Dynabeads™ products for a whole range of applications](#).
- Find [magnets for Dynabeads™ separations](#).

For Research Use Only. Not for use in diagnostic procedures.

Specifications	
Cell Type	T Cells (Whole Population)
Product Type	Antibody Coated Bead
Isolation Technology	Depletion, positive isolation for molecular applications
No. of Cells	Processes ~2 x 10 ⁹ cells total
Output Viability	>95%
Product Line	DYNAL™, Dynabeads™

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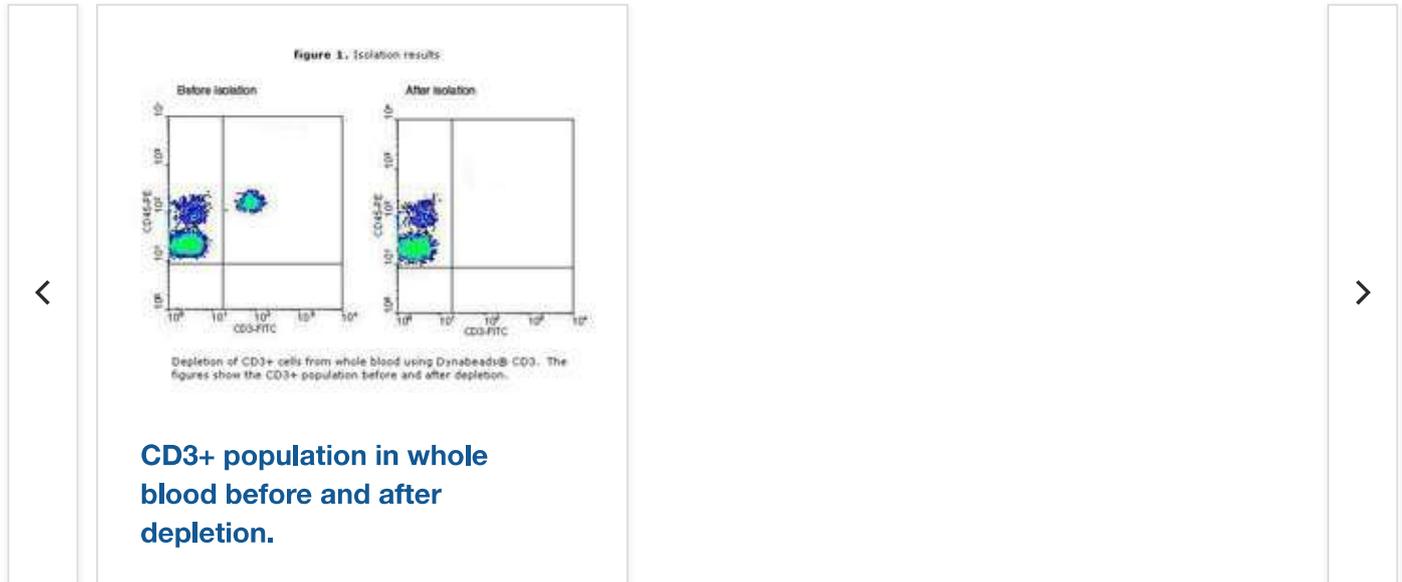
Shipping Condition	Room Temperature
Starting Material Cell No.	1 x 10 ⁷ PBMCs per isolation
Target Species	Human
Diameter (Metric)	4.5 μm
Unit Size	5 mL

Contents & Storage

This Product Contains: 5 mL Dynabeads™ CD3 coated with anti-CD3 monoclonal antibody.

Storage Conditions: 2°C to 8°C. Do not freeze.

Figures



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Application Notes

 [Application Note: Automated T cell isolation featuring easy integration with downstream activation and immunoprecipitation](#)

 [Application Note: The key combination for successful cell isolation, seamlessly integrated with protein isolation and analysis](#)

Product Information

Manuals

 [Dynabeads CD3](#)

Protocols

 [Isolate or Deplete CD3+ T Cells - Whole Blood, Buffy Coat, MNC Suspensions](#)

Frequently asked questions (FAQs)

What can I do to improve cell yield when isolating cells with any of the Dynabeads positive isolation kits? 

How do I thaw frozen cells? 

What is positive isolation with Dynabeads magnetic beads? 

Can bone marrow be used as starting material for cell isolation using Dynabeads magnetic beads ? 

Is there a method to remove the Dynabeads magnetic beads from isolated cells if the bead releasing reagent is not available? 

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CellTrace™ Violet Cell Proliferation Kit, for flo...

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489,00 / 180 assays

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Dynabeads™ Mouse Pan T (Thy1.2)

Catalog number: 11443D

1.302,00 / 5 mL

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