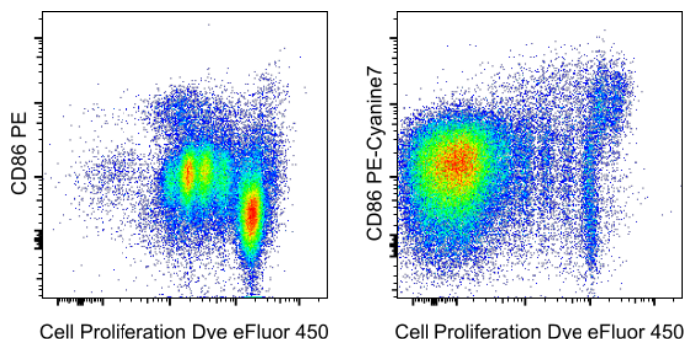


eBioscience™ Phytohemagglutinin-L (PHA-L) Solution (500X)

Catalog Number: 00-4977

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



Left: Human peripheral blood mononuclear cells were labeled with 10 μ M Cell Proliferation Dye eFluor® 450 (cat. 65-0842) and cultured for 3 days with Phytohemagglutinin-L (PHA-L) Solution (500X) at 2 μ L per mL of culture medium. Cells were stained with Anti-Human CD86 PE (cat. 12-0869) and Fixable Viability Dye eFluor® 660 (cat. 65-0864). Total singlet-gated, viable cells were used for analysis.

Right: Mouse splenocytes were labeled with 10 μ M Cell Proliferation Dye eFluor® 450 (cat. 65-0842) and cultured for 3 days with Phytohemagglutinin-L (PHA-L) Solution (500X) at 2 μ L per mL of culture medium. Cells were stained with Anti-Mouse CD86 PE-Cyanine7 (cat. 25-0862) and Fixable Viability Dye eFluor® 660 (cat. 65-0864). Total singlet-gated, viable cells were used for analysis.

Product Information

Contents: eBioscience™
Phytohemagglutinin-L (PHA-L) Solution
(500X)



Catalog Number: 00-4977

Concentration: 500X (1.25 mg/mL)

Handling Conditions: Use in sterile environment.

Source: *Phaseolus vulgaris*

Formulation: Sterile aqueous buffer, no sodium azide

Temperature Limitation: Store at -20°C.



LOT



Batch Code: Refer to vial

Use By: Refer to vial

Description

The Phytohemagglutinin-L (PHA-L) Solution (500X) is a ready to use solution of PHA-L in aqueous buffer. PHA is a mixture of lectins isolated from the red kidney bean, *Phaseolus vulgaris*. PHA-L is the fraction of PHA that exhibits strong leucoagglutinating and mitogenic activity, but very little erythroagglutinating activity. This reagent is intended for use in *in vitro* activation of human and mouse leukocytes.

Applications Reported

Phytohemagglutinin-L (PHA-L) Solution (500X) has been reported for use in *in vitro* cultures.

Applications Tested

The activity of the Phytohemagglutinin-L (PHA-L) Solution (500X) has been tested by proliferation of mouse splenocytes or human peripheral blood mononuclear cells as measured by dilution of Cell Proliferation Dye eFluor® 450. This is a pre-titrated 500X solution and can be diluted to 2 μ L per mL of culture medium. This reagent may be further-titrated for optimal performance in the assay of interest.

Under the testing conditions listed above, no change in performance is observed after 20 freeze-thaw cycles. For optimal performance, smaller aliquots may be prepared to minimize the number of freeze-thaw cycles.

References

Lai-Hipp C, Goldberg T, Scott E, Ziman A, Vyas G. Pooled peripheral blood mononuclear cells provide an optimized cellular substrate for human immunodeficiency virus Type 1 isolation during acute infection. *Transfusion*. 2011 Feb;51(2):333-7.

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Hamelryck TW, Dao-Thi MH, Poortmans F, Chrispeels MJ, Wyns L, Loris R. The crystallographic structure of phytohemagglutinin-L. *J Biol Chem.* 1996 Aug 23;271(34):20479-85.

Yachnin S, Svenson RH. The immunological and physicochemical properties of mitogenic proteins derived from *Phaseolus vulgaris*. *Immunology.* 1972 May;22(5):871-83.

Related Products

00-4505 eBioscience™ Monensin Solution (1000X)
00-4506 eBioscience™ Brefeldin A Solution (1000X)
00-4970 eBioscience™ Cell Stimulation Cocktail (500X)
00-4975 eBioscience™ Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)
00-4976 eBioscience™ Lipopolysaccharide (LPS) Solution (500X)
00-4978 eBioscience™ Concanavalin A (Con A) Solution (500X)
00-4980 eBioscience™ Protein Transport Inhibitor Cocktail (500X)
65-0842 eBioscience™ Cell Proliferation Dye eFluor™ 450

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