Technical Data Sheet

Alexa Fluor® 700 Mouse Anti-Human CD4

Product Information

Material Number: 557922 Size: 0.1 mg 0.2 mg/mlConcentration: RPA-T4 Clone: Mouse IgG1, κ Isotype: QC Testing: Human Reactivity:

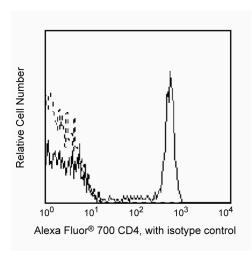
IV T114 Workshop:

Storage Buffer: Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium

Description

The RPA-T4 clone reacts with CD4, a 59 kDa single-chain transmembrane glycoprotein [receptor for human immunodeficiency virus (HIV)] present on T-helper/inducer cell populations. This antibody binds to the D1 domain (CDR1 and CDR3 epitopes) of the CD4 antigen and reacts with approximately 80% of thymocytes and 45% of peripheral blood lymphocytes. CD4 is also present in low density on peripheral blood monocytes. RPA-T4 is capable of blocking HIV-1, gp120, and inhibits syncytium formation.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of CD4 (RPA-T4) reactivity on peripheral blood lymphocytes analyzed by flow cytometry.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 700 under optimum conditions, and unreacted Alexa Fluor® 700 was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application Flow cytometry Routinely Tested

Suggested Companion Products

Catalog Number Clone Size 557882 Alexa Fluor® 700 Mouse IgG1, κ Isotype Control 0.1 mg MOPC-21

Product Notices

- This antibody has been developed for the application listed above. However, a routine test is not performed on every lot. Researchers should determine the optimal concentration of this reagent for their individual applications.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

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557922 Rev. 3 Page 1 of 2

- 4. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
- 5. Alexa Fluor® 700 has an adsorption maximum of ~700nm and a peak fluorescence emission of ~720nm. Before staining cells with this reagent, please confirm that your flow cytometer is capable of exciting the fluorochrome and discriminating the resulting fluorescence.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 7. Alexa Fluor is a registered trademark of Molecular Probes, Inc., Eugene, OR.

References

Beavis AJ, Pennline KJ. Allo-7: a new fluorescent tandem dye for use in flow cytometry. Cytometry. 1996; 24(4):390-395. (Biology)
Knapp W, Dorken B, Rieber EP, et al, ed. Leucocyte Typing IV. New York: Oxford University Press; 1989. (Clone-specific)
Roederer M, Kantor AB, Parks DR, Herzenberg LA. CyTPE and CyTAPC: bright new probes for immunofluorescence. Cytometry. 1996; 24(3):191-197. (Biology)
Schlossman SF, Boumsell L, Gilks W, et al, ed. Leukocyte Typing V: White Cell Differentiation Antigens. New York: Oxford University Press; 1995.
(Clone-specific)

557922 Rev. 3 Page 2 of 2