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SM1058R Monoclonal Antibody to CD4 - PE

Alternate names: T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4

Quantity: 100 Tests
Concentration: 0.1 mg/ml

Background: CD4 is a 55kD cell surface glycoprotein that is primarily expressed on a subpopulation

of T lymphocytes, on peripheral blood monocytes and on tissue macrophages.

Uniprot ID: P01730

NCBI: NP_000607.1

GenelD: 920

Host / Isotype: Mouse / IgG1

Recommended Isotype

Controls:

Clone: RPA-T4

Immunogen: Human PHA blasts.

Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1

myeloma cell line.

Format: State: Lyophilized purified IgG fraction.

Purification: Affinity Chromatography on Protein G

Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1%

BSA as stabilizer.

Label: PE - R. Phycoerythrin (RPE)

SM10R (for use in human samples)

Reconstitution: Restore with distilled water

Applications: Flow Cytometry: Use 10 μl of neat-1/10 diluted antibody to label 10e6 cells or 100 μl of

whole blood.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: This antibody recognises CD4. Epitope mapping studies have shown that antibodies,

produced by clone RPA-T4, recognise an epitope within domain 1, of the extracellular region, of the CD4 molecule. Clone RPA-T4 has been reported to block gp120-CD4 interaction and inhibit syncytium formation. We recommend the use of SM1058LE for

this purpose. **Species:** Human.

Other species not tested.

Storage: Prior to and following reconstitution store the antibody at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.



General Readings:

- 1. Zarkesh-Esfahani H, Pockley G, Metcalfe RA, Bidlingmaier M, Wu Z, Ajami A, et al. High-dose leptin activates human leukocytes via receptor expression on monocytes. J Immunol. 2001 Oct 15;167(8):4593-9. PubMed PMID: 11591788.
- 2. Voehringer D, Koschella M, Pircher H. Lack of proliferative capacity of human effector and memory T cells expressing killer cell lectinlike receptor G1 (KLRG1). Blood. 2002 Nov 15;100(10):3698-702. Epub 2002 Jul 12. PubMed PMID: 12393723.
- 3. Piatier-Tonneau, D. (1997) CD4 workshop panel report. In Leucocyte Typing VI. White cell differentiation antigens. Edited by Kishimoto, T., Kikutani, H., von dem Borne, A.E.G.Kr., Goyert, A.M., Mason, D.Y., Miyasaka, M., Moretta, L., Okumura, K., Shaw, S., Springer, T.A., Sugamura, K., Zola, H. Garland publishing Inc. New York &

Pictures:

Staining of human peripheral blood lymphocytes with MOUSE ANTI HUMAN CD4:RPE (SM1058R).

