Product Information Sheet

Monoclonal Anti-CD4

Catalogue No. MA1016

Lot No. 08A12

Clone: CA-4

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

Human

No cross reactivity with other proteins.

Recommended application

Immunohistochemistry(F)

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

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Immunogen

CD4-transfected mouse T-cell hybridoma, 3DT, followed by CD4+ human T-cell CEM cells.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Immunohistochemistry(F)

At 1µg/ml to detect CD4 in formalin or acetone fixed tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN_3 as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

BACKGROUND

CD stands for 'cluster of differentiation'; the number that follows is arbitrarily assigned. In the full designation the cell type and nature and molecular weight of the antigen are given in brackets; for CD4, this is as follows: [T,gp55] .CD4 is present on a subset of T lymphocytes ("helper/inducer" T cells) and is also expressed at a lower level on monocytes, tissue macrophages and granulocytes. The antigen is involved in binding to MHC class II molecules. The intracellular domain of the antigen is associated with p56lck protein tyrosine kinase.

REFERENCE

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

1. Committee on Human Leukocyte Differentiation Antigens, IUIS WHO Nomenclature Subcommittee : Proposed nomenclature for human leukocyte differentiation antigens. *Bull. WHO* 5: 809-811, 1984. Note: Alternate: Immunology Today 5: 280 only, 1984.
2. Grakoui, A.; Bromley, S. K.; Sumen, C.; Davis, M. M.; Shaw, A. S.; Allen, P. M.; Dustin, M. L. : The immunological synapse: a molecular machine controlling T cell activation. *Science* 285: 221-227, 1999

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