



## Product Information Sheet

### Monoclonal Anti-CD4, conjugated to Magnetic Beads

<b>Catalogue No.</b> MA1016-M	<b>Immunogen</b> CD4-transfected mouse T-cell hybridoma, 3DT, followed by CD4+ human T-cell CEM cells.
<b>Lot No.</b> 08A12	
<b>Clone:</b> CA-4	<b>Purification</b> Purified by the goat anti-mouse IgG affinity chromatography.
<b>Ig type:</b> mouse IgG1	
<b>Size:</b> 200µl	<b>Formulation</b> Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN <sub>3</sub> .
<b>Specificity</b> Human No cross reactivity with other proteins.	<b>Storage</b> Store at 4°C for frequent use.
<b>Recommended application</b> <i>Immunoprecipitation(IP)</i>	<b>Description</b> This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

### 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

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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