Product datasheet

Anti-CD4 Antibody (Clone#CA-4)

Catalog Number: *BM0212*

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Basic Information

Product Name	Anti-CD4 Antibody (Clone#CA-4)
Gene Name	CD4
Source	Mouse
Isotype	IgG1
Species Reactivity	human
Tested Application	FCM,IHC-F,ICC
Contents	200ug/ml antibody with PBS， 0.02% NaN3 , 1mg BSA and 50% glycerol.
Immunogen	CD4-transfected mouse T-cell hybridoma, 3DT, followed by CD4+ human T-cell CEM cells.
concentration	200ug/ml
Purification	Ascites
Dilution Ratios	Immunohistochemistry in frozen section (IHC-F): 1:50-400 Immunocytochemistry: 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

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.

Selected Validation Data

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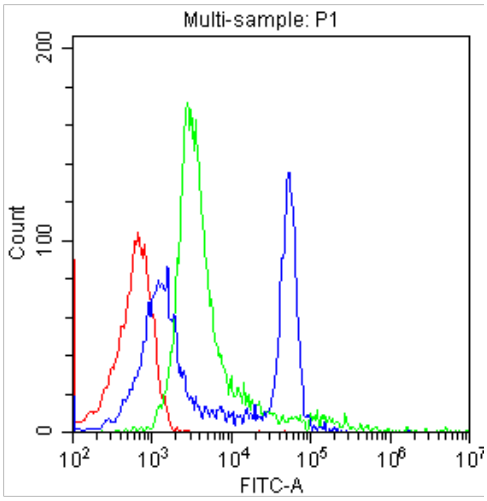

Figure 1. Flow Cytometry analysis of human PBMC cells using anti-CD4 antibody (BM0212).Overlay histogram showing human PBMC cells stained with BM0212 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-CD4 Antibody (BM0212,1µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1µg/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

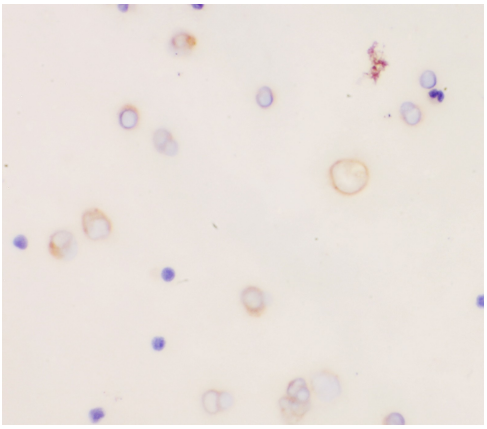

Figure 2. ICC analysis of CD4 using anti-CD4 antibody (BM0212). CD4 was detected in an immunocytochemical section of human serum. The section was developed using HRP Conjugated mouse IgG Super Vision Assay Kit (Catalog#SV0001) with DAB (Catalog # AR1022) as the chromogen.