



## Rat anti-Mouse CD4, PE-Cy5 Conjugated mAb

**E16MC004**

| <b><u>Catalog No.</u></b> | <b><u>Size</u></b> |
|---------------------------|--------------------|
| E16MC004-100              | 100 Tests          |
| E16MC004-050              | 50 Tests           |

**Description:**

The 4AGK1.5 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor. It is a member of the Ig superfamily, primarily expressed on most thymocytes, a subset of T cells, and weakly on macrophages and dendritic cells. It acts as a coreceptor with the TCR during T cell activation and thymic differentiation by binding MHC classII and associating with the protein tyrosine kinase, lck.

|                           |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------|
| <b>Storage Condition:</b> | Store at 4°C. DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.                                |
| <b>Clone:</b>             | 4AGK1.5                                                                               |
| <b>Isotype:</b>           | Rat IgG2b                                                                             |
| <b>Reactivity:</b>        | Mouse, Not yet tested in other species.                                               |
| <b>Vol.per.Test:</b>      | 10µl/Test                                                                             |
| <b>Storage Buffer:</b>    | Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide and 0.2% (w/v) BSA |
| <b>Applications:</b>      | FCM                                                                                   |

**Experimental Methods:**

1. Take 100µl a certain amount of prepared cells and add to the bottom of 5 ml tube;
2. Add 10µl labeled antibody to the bottom of flow tube mixing with the whole blood, incubate for 20 minutes at room temperature away from light;
3. Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant;
4. Add 0.3-0.5 ml PBS wash buffer to resuspend the cells and detect by flow cytometry (sample should be determined in two hours on the machine and can also be added fixation overnight at 4 °C then measured).

[PBS wash buffer: PBS +1% FBS +0.1% NaN<sub>3</sub>; Cat.: FXP005]

[Cell fixation: 2% formaldehyde solution]

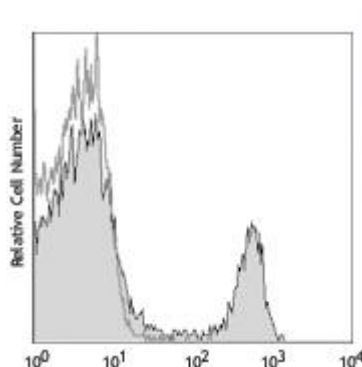
**Notices:**

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10<sup>6</sup> cells in a 100µl experimental sample (a test);
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

**For Research Use Only**

3. **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;
4. If the sample can not be timely analysis, please fixed;
5. **For research use only, not for diagnostic or therapeutic use.**

#### Profile of Mouse spleen cells analyzed by flow cytometry



Mouse spleen cells analyzed with PE-Cy5 mouse CD4 mAb.

#### References

1. Nakamura.T. 1992.Personal communication.
2. Bendelac.A.1995.Mouse NK1 T Cells.Curr.Opin.Immunol.7:367-374
3. Shevach,E.M.2000.Regulatory T cells in autoimmunity.Annu.Rev.Immunol.

#### Related products:

| Catalog No. | Product name                            | Applications |    |
|-------------|-----------------------------------------|--------------|----|
| E16MU004    | Rat Anti-Mouse CD4, Purified            | FCM          | IF |
| E16MF004    | Rat Anti-Mouse CD4, FITC Conjugated mAb | FCM          | IF |
| E16MP004    | Rat Anti-Mouse CD4, PE Conjugated mAb   | FCM          | IF |
| E16MA004    | Rat Anti-Mouse CD4, APC Conjugated mAb  | FCM          | IF |

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