

## CD4 Mouse Monoclonal Antibody

SKU: EAB-065

Recombinant mouse monoclonal antibody (Clone ID: 13B8.2), expressed in Chinese Hamster Ovary cells (CHO), is capable of strong binding to human CD4.

CD4 is a glycoprotein that serves as a co-receptor for the T-cell receptor (TCR). CD4 is found on the surface of immune cells such as helper T cells, monocytes, macrophages, and dendritic cells. This antibody is a mouse recombinant monoclonal antibody that binds specifically to human CD4, and it can neutralize the bioactivity of CD4.

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| species reactivity | human   |
| recombinant        | expressed in Chinese Hamster Ovary cells (CHO). |
| applications       | ELISA, WB, IHC, Flow Cyt, neutralization        |
| antibody form      | affinity purified immunoglobulin                |
| immunogen          | human CD4                                       |
| clone              | 13B8.2  |
| purity             | >95% (SDS-PAGE)                                 |
| form               | 0.015 M PBS, 0.05% NaN <sub>3</sub> , pH7.2     |
| concentration      | ~ 2 mg/ml                                       |
| isotype            | mouse IgG1, k                                   |
| Fc-engineered      | n/a; wild type Fc                               |

- Store at -20°C. Recombinant monoclonal antibodies are guaranteed stable for 12 months when properly stored.

### References:

1. Bès C, Briant-Longuet L, Cerruti M, De Berardinis P, Devauchelle G, Devaux C, Granier C, Chardès T. Efficient CD4 binding and immunosuppressive properties of the 13B8.2 monoclonal antibody are displayed by its CDR-H1-derived peptide CB1. *FEBS Lett.* 2001 Nov 9;508(1):67-74.
2. Troadec S, Chentouf M, Cérutti M, Nguyen B, Olive D, Bès C, Chardès T. In vitro antitumoral activity of baculovirus-expressed chimeric recombinant anti-CD4 antibody 13B8.2 on T-cell lymphomas. *J Immunother.* 2007 Feb-Mar;30(2):190-202.
3. Chentouf M, Rigo M, Ghannam S, Navarro-Teulon I, Mongrand S, Pèlegriin A, Chardès T. The lipid-modulating effects of a CD4-specific recombinant antibody correlate with ZAP-70 segregation outside membrane rafts. *Immunol Lett.* 2010 Oct 30;133(2):62-9.
4. Rigo M, Chentouf M, Pèlegriin A, Chardès T. CD4 ligation excludes the Carma1-Bcl10-MALT1 complex from GM1-positive membrane rafts in CD3/CD28 activated T cells. *Cell Immunol.* 2011;270(1):40-6.