

## Rat monoclonal anti mouse CD4

(Azide-free & Low endotoxin)

### ORDERING INFORMATION

|                        |                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Catalog Number:</b> | <b>gAP-0003</b>                                                                                     |
| <b>Size:</b>           | <b>1.00 mg</b>                                                                                      |
| <b>Storage:</b>        | <b>&lt; -20° C</b>                                                                                  |
| <b>Immunogen:</b>      | <b>Mouse CD4<sup>+</sup> Cells</b>                                                                  |
| <b>Ig Type:</b>        | <b>Rat IgG2b</b>                                                                                    |
| <b>Clone</b>           | <b>AP-MAB0810</b>                                                                                   |
| <b>Endotoxin Level</b> | <b>&lt; 0.002EU/μg IgG*</b>                                                                         |
| <b>Applications:</b>   | <b>Blocking T cell activation, Depletion of CD4<sup>+</sup> cells, and Thymocyte co-stimulation</b> |

**Description:** CD4 is a 55 kD protein and 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 co-receptor with the TCR during T cell activation and thymic differentiation by binding MHC class II and associating with the protein tyrosin kinase, lck.

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a Rat immunized with mouse CD4<sup>+</sup> cells).

**Formulation:** The IgG fraction of **culture supernatant** was purified by Protein A/G affinity chromatography and lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS, **Azide Free**).

**Reconstitution:** Reconstitute the antibody with sterile PBS and the reconstituted antibody can be aliquoted and stored frozen at < -20 for at least for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C.

**Specificity:** The antibody was selected for its ability to detect mouse CD4<sup>+</sup> cells by FC.

**\*Endotoxin Level:** Extremely low level of LPS (< 0.002EU/μg IgG)

### Application(s):

- |    |                                                |     |
|----|------------------------------------------------|-----|
| 1. | Blocking of CD4 <sup>+</sup> T cell activation | Yes |
| 2. | Thymocyte costimulation                        | Yes |
| 3. | In vitro and in vivo depletion                 | Yes |

\* The antibody is produced by in vitro culture and for Research Use Only