



11 Park Drive, Suite 12  
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## Rat monoclonal anti mouse CD45RB

(Azide-free & Low endotoxin)

### ORDERING INFORMATION

|                 |                                |
|-----------------|--------------------------------|
| Catalog Number: | gAP-0015                       |
| Size:           | 1.00 mg                        |
| Storage:        | < -20° C                       |
| Immunogen:      | Activated mouse B lymphoblasts |
| Ig Type:        | Rat IgG2                       |
| Clone           | AP-MAB0822                     |
| Endotoxin Level | < 0.002EU/μg IgG*              |
| Applications:   | FC, IP, WB & Blocking          |

**Description:** CD45RB is an isoform of CD45 with exon 5 splicing (encodes B determinant). It is a 220 kD glycoprotein expressed on peripheral B cells, naïve T cells, thymocytes, weakly on macrophages, and dendritic cells. It plays a critical role in TCR and BCR signaling. As T cells become activated and progress from naïve to memory cells, CD45RB expression is downregulated. Additionally, functionally distinct CD4<sup>+</sup> T cell subsets, which secrete differing cytokine profiles, can be separated by CD45RB intensity. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4 and Thy-1.

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with Activated mouse B lymphoblasts).

**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 CD45RB on most leukocytes.

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

### Application(s):

1. FC
2. IP and WB
3. Blocking T cell activation in vivo

\* The antibody is produced by in vitro culture.

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