

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⁺ 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 and for Research Use Only.**