

Purified Anti-Mouse CD45R/B220 Antibody[RA3.3A 1/6.1]**Catalog Number:** GF1112A**Note:** Centrifuge before opening to ensure complete recovery of vial contents.**Description**

Reactivity	Mouse
Immunogen	Recombinant Mouse CD45R/B220 protein
Host	Rat
Isotype	Rat IgM, κ
Clone	RA3.3A 1/6.1
Purification	>98%, Protein A/G purified
Conjugation	Unconjugated
Buffer	Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer. Dialyze to completely remove the stabilizer prior to labeling.

Applications**Recommended Dilution**

FCM	2 $\mu\text{g/mL}$ (0.5×10^6 - 1×10^6 cells)
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Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
Shipping	Ice bag

Background

CD45R, also known as B220, is an isoform of CD45. It is a member of the protein tyrosine phosphatase (PTP) family with a molecular weight of approximately 180-240 kD. CD45R is expressed on B cells (at all developmental stages from pro-B cells through mature B cells), activated B cells, and subsets of T and NK cells. CD45R (B220) is also expressed on a subset of abnormal T cells involved in the pathogenesis of systemic autoimmunity in MRL-Fas^{lpr} and MRL-Fas^{gld} mice. It plays a critical role in TCR and BCR signaling. The primary ligands for CD45 are galectin-1, CD 2, CD3, and CD4. CD45R is commonly used as a pan-B cell marker; however, CD19 may be more appropriate for B cell specificity.