



## Product Datasheet

### Biotin Anti-Mouse CD45R/B220 Antibody

[RA3.3A 1/6.1]

Catalogue Code: AGEL0422

## Antibody Data

Product SKU:	AGEL0422	Clone:	RA3.3A 1/6.1
Applications:	FCM		
Reactivity:	Mouse		

## Important Note:

Centrifuge before opening to ensure complete recovery of vial contents.

## Product Information:

**Alternate Names:** B220;  
**Uniprot ID:** -  
**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<sup>lpr</sup> and MRL-Fas<sup>gld</sup> mice. It plays a critical role in TCR and BCR signaling. The primary ligands for CD45 are galectin-1, CD2, CD3, and CD4. CD45R is commonly used as a pan-B cell marker; however, CD19 may be more appropriate for B cell specificity.

**Form:** Liquid  
**Conjugation:** Biotin  
**Size:** 25&micro;g, 100&micro;g  
**Host Species:** Rat  
**Isotype:** Rat IgM, κ

**Isotype Control:** Biotin Rat IgM, κ Isotype Control[RTK2118] [Product AGEL0422]

**Storage Buffer:** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

**Shipping:** Biological ice pack at 4°C

**Stability & Storage:** Keep as concentrated solution. Store at 2~8°C and protected from prolonged exposure to light. Do not freeze. Centrifuge before opening to ensure complete recovery of vial contents. This product is guaranteed up to one year from purchase.

**Recommended Usage:** Each lot of this antibody is quality control tested by flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is  $\leq 1.0 \mu\text{g}$  per  $10^6$  cells in  $100 \mu\text{L}$  volume or  $100 \mu\text{L}$  of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.