

Rat anti-Mouse CD45R/B220 Monoclonal Antibody | anti-CD45R/B220 antibody

Anti-Mouse CD45R/B220 Monoclonal Antibody (PerCP/Cy5.5 Conjugated)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA174637	Rat	Mouse	Flow Cytometry, Functional Assay

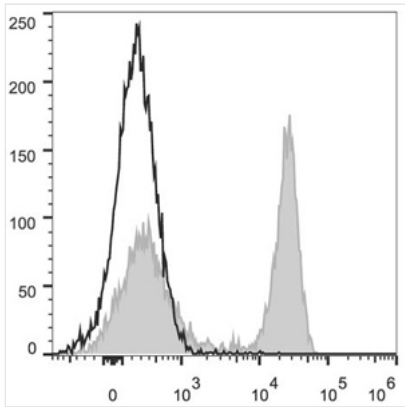
PRODUCT SYNONYMS

CD45R/B220; Monoclonal Antibody; Anti-Mouse CD45R/B220 Monoclonal Antibody (PerCP/Cy5.5 Conjugated); B220; CD45; GP180; LCA; T200; anti-CD45R/B220 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgM, kappa
Clone Number	RA3.3A 1/6.1
Form/Format	Liquid; Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.
Sequence Length	1293
Applicable Applications for anti-CD45R/B220 antibody	FCM/FACS (Flow Cytometry)
Conjugation	PerCP/Cyanine5.5
Conjugation Note	PerCP/Cyanine5.5 is designed to be excited by the blue laser (488 nm) and detected using an optical filter centered near 675 nm (e.g., a 690/50 nm bandpass filter)
Note	Centrifuge before opening to ensure complete recovery of vial contents
Preparation and Storage	Store at 2-8°C and protected from prolonged exposure to light. Do not freeze. Keep as concentrated solution.

IMAGES



FCM/FACS (Flow Cytometry)

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5 uL of the antibody per test (million cells in 100 uL staining volume or per 100 uL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. C57BL/6 murine splenocytes are stained with PerCP/Cyanine5.5 Anti-Mouse CD45R/B220 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

ADDITIONAL INFORMATION

Related Product Information for anti-CD45R/B220 antibody	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-Faslpr and MRL-Fasgld 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.
References	1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Trowbridge IS, et al. 1993. Annu. Rev. Immunol. 12:85. 3. Kishihara K, et al. 1993. Cell 74:143. 4. Pulido R, et al. 1988. J. Immunol. 140:3851.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1375383927
NCBI GeneID	19264
UniProt Accession #	P06800; P08575
NCBI Official Full Name	Receptor-type tyrosine-protein phosphatase C
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, C
NCBI Official Symbol	Ptprc
NCBI Official Synonym Symbols	loc; B220; Cd45; L-CA; Ly-5; T200; CD45R; Lyt-4
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase C
UniProt Gene Name	Ptprc
UniProt Synonym Gene Names	Ly-5
UniProt Entry Name	PTPRC_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

