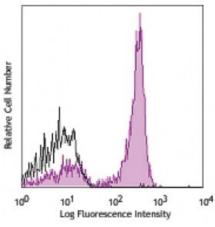
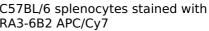
Product Data Sheet

APC/Cy7 anti-mouse/human CD45R/B220

Catalog # / Size:	1116115 / 25 μg 1116120 / 100 μg	
Clone:	RA3-6B2	
Isotype:	Rat IgG2a, к	4
Immunogen:	Abelson murine leukemia virus-induced pre-B tumor cells	- Call Ma
Reactivity:	Human	- the b
Preparation:	The antibody was purified by affinity chromatography, and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.	ć
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	C R
Concentration:	0.2	





Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Clone RA3-6B2 has been described to react with an epitope on the extracellular domain of the transmembrane CD45 glycoprotein which is dependent upon the expression of exon A and specific carbohydrate residues. Additional reported applications (for the relevant formats) include: immunoprecipitation1, <i>in vitro</i> and <i>in vivo</i> modulation of B cell responses ²⁻⁴ , and immunohistochemistry of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections ^{5,6} . The LEAF TM purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 103216).
Application References:	 Coffman RL. 1982. <i>Immunol. Rev.</i> 69:5. (IP) George A, <i>et al.</i> 1994. <i>J. Immunol.</i> 152:1014. (Activ) Asensi V, <i>et al.</i> 1989. <i>Immunology</i> 68:204. (Activ) Domiati-Saad R, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:5936. (Activ) Hata H, <i>et al.</i> 2004. <i>J. Clin. Invest.</i> 114:582. (IHC) Monteith CE, <i>et al.</i> 1996. <i>Can. J. Vet. Res.</i> 60:193. (IHC) Shih FF, <i>et al.</i> 2006. <i>J. Immunol.</i> 176:3438. (FC) Chang C L-T, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:6984. Fazilleau N, <i>et al.</i> 2007. <i>Nature Immunol.</i> 8:753. Lang GL, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) PubMed Charles N, <i>et al.</i> 2011. <i>Transpl. Int.</i> 24:501. (FC) PubMed Murakami R, <i>et al.</i> 2013. <i>PLoS One.</i> 8:73270. PubMed

Description:	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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com 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, CD2, CD3, and CD4. CD45R is commonly used as a pan-B cell marker; however, CD19 may be more appropriate for B cell specificity.

Antigen
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, <