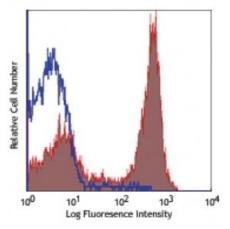
Product Data Sheet

PerCP anti-mouse/human CD45R/B220

Catalog # / Size:	1116170 / 100 μg 1116165 / 25 μg
Clone:	RA3-6B2
Isotype:	Rat IgG2a, к
Immunogen:	Abelson murine leukemia virus-induced pre-B tumor cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PerCP under optimal conditions. The solution is free of unconjugated PerCP and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



C57BL/6 mouse splenocytes stained with RA3-6B2 PerCP

Applications:

Applications: Flow Cytometry Each lot of this antibody is quality control tested by immunofluorescent staining Recommended Usage: with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm. Application 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 Notes: expression of exon A and specific carbohydrate residues. Additional reported applications (for the relevant formats) include: immunoprecipitation1, in vitro and *in vivo* modulation of B cell responses²⁻⁴, and immunohistochemistry of acetonefixed frozen sections and formalin-fixed paraffin-embedded sections^{5,6}. The LEAF[™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 103216). Application 1. Coffman RL. 1982. Immunol. Rev. 69:5. (IP) **References:** 2. George A, et al. 1994. J. Immunol. 152:1014. (Activ) 3. Asensi V, et al. 1989. Immunology 68:204. (Activ) 4. Domiati-Saad R, et al. 1993. J. Immunol. 151:5936. (Activ) 5. Hata H, et al. 2004. J. Clin. Invest. 114:582. (IHC) 6. Monteith CE, et al. 1996. Can. J. Vet. Res. 60:193. (IHC) 7. Shih FF, et al. 2006. J. Immunol. 176:3438. (FC) 8. Chang C L-T, et al. 2007. J. Immunol. 178:6984. 9. Fazilleau N, et al. 2007. Nature Immunol. 8:753. 10. Lang GL, et al. 2008. Blood 111:2158. PubMed 11. Charles N, et al. 2010. Nat. Med. 16:701. (FC) PubMed 12. del Rio ML, et al. 2011. Transpl. Int. 24:501. (FC) PubMed

13. Murakami R, *et al.* 2013. *PLoS One.* 8:73270. PubMed

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 **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 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.

- References: 2. Trowbridge IS, et al. 1993. Annu. Rev. Immunol. 12:85.
 - 3. Kishihara K, et al. 1993. Cell 74:143.
 - 4. Pulido R, <