

1P-715-C025

## Monoclonal Antibody to CD45R (human, mouse) Phycoerythrin (PE) conjugated (0.025 mg)

<b>Clone:</b>	RA3-6B2
<b>Isotype:</b>	Rat IgG2a
<b>Specificity:</b>	The rat monoclonal antibody RA3-6B2 recognizes an epitope on CD45R, which is expressed at all developmental stages of B cells, including activated B cells, but also on subsets of NK and T cells. T cells detected by this antibody are supposed to be in activated state.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Abelson murine leukemia virus-induced pre-B tumor cells
<b>Species Reactivity:</b>	Human, Mouse, Feline (Cat)
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
<b>Concentration:</b>	0.5 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD45R, also known as B220, is a receptor-type protein tyrosine phosphatase glycoprotein. It is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases, promotes cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45R expression also identifies a subset of murine bone marrow cells able to form osteoclast-like cells.

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**Antibodies**

- References:**
- \*Watanabe Y, Akaike T: Activation signal induces the expression of B cell-specific CD45R epitope (6B2) on murine T cells. *Scand J Immunol.* 1994 May;39(5):419-25.
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  - \*Rada C, Ehrenstein MR, Neuberger MS, Milstein C: Hot spot focusing of somatic hypermutation in MSH2-deficient mice suggests two stages of mutational targeting. *Immunity.* 1998 Jul;9(1):135-41.
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  - \*Montecino-Rodriguez E, Leathers H, Dorshkind K: Identification of a B-1 B cell-specified progenitor. *Nat Immunol.* 2006 Mar;7(3):293-301.
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  - \*Lochhead RB, Sonderegger FL, Ma Y, Brewster JE, Cornwall D, Maylor-Hagen H, Miller JC, Zachary JF, Weis JH, Weis JJ: Endothelial cells and fibroblasts amplify the arthritogenic type I IFN response in murine Lyme disease and are major sources of chemokines in *Borrelia burgdorferi*-infected joint tissue. *J Immunol.* 2012 Sep 1;189(5):2488-501

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