

1A-715-C025

Monoclonal Antibody to CD45R (human, mouse) Allophycocyanin (APC) conjugated (0.025 mg)

Clone:	RA3-6B2
Isotype:	Rat IgG2a
Specificity:	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.
Regulatory Status:	RUO
Immunogen:	Abelson murine leukemia virus-induced pre-B tumor cells
Species Reactivity:	Human, Mouse, Feline (Cat)
Preparation:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	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.
Usage:	The reagent is designed for Flow Cytometry analysis.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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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 - *Montecino-Rodriguez E, Leathers H, Dorshkind K: Identification of a B-1 B cell-specified progenitor. *Nat Immunol.* 2006 Mar;7(3):293-301.
 - *Cappione AJ, Pugh-Bernard AE, Anolik JH, Sanz I: Lupus IgG VH4.34 antibodies bind to a 220-kDa glycoform of CD45/B220 on the surface of human B lymphocytes. *J Immunol.* 2004 Apr 1;172(7):4298-307.
 - *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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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz