



Antibodies

12-715-C100

## Monoclonal Antibody to CD45R (human, mouse) Low Endotoxin (0.1 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>Application:</b>	Flow Cytometry Immunoprecipitation Immunohistochemistry (paraffin sections) Immunohistochemistry (frozen sections) Immunocytochemistry Functional Application modulation of B cell responses
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-G affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized. Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<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.

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies**

- References:**
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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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