



Antibodies

1P-624-C100

## Monoclonal Antibody to CD44 Phycoerythrin (PE) conjugated (0.1 mg)

<b>Clone:</b>	IM7
<b>Isotype:</b>	Rat IgG2b
<b>Specificity:</b>	The rat monoclonal antibody IM7 reacts with CD44 antigen (Phagocyte glycoprotein 1), an 80-95 kDa transmembrane glycoprotein (hyaladherin family) present on the most of cells and tissues (leukocytes, endothelial cells, mesenchymal cells, etc.); it is negative on platelets and hepatocytes. The antibody reacts with all isoforms of mouse CD44.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Dexamethasone-induced cells of the SJL mouse spontaneous myeloid leukemia M1
<b>Species Reactivity:</b>	Human, Mouse, Canine (Dog), Equine (Horse), 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>	CD44 is a transmembrane glycoprotein expressed on the surface of most cells, which serves as a receptor for hyaluronan. CD44 mediates angiogenesis, cell adhesion, proliferation and migration, it is thus important for lymphocyte activation, recirculation and homing. Although CD44 functions are essential for physiological activities of normal cells, elevated CD44 expression correlates with poor prognosis in many carcinomas, facilitating tumour growth and metastasis, antiapoptosis and directional motility of cancer cells.

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

**Antibodies****References:**

- \*Lesley J, Trowbridge IS: Genetic characterization of a polymorphic murine cell-surface glycoprotein. *Immunogenetics*. 1982 Mar;15(3):313-20.
- \*Hegde VL, Singh NP, Nagarkatti PS, Nagarkatti M: CD44 mobilization in allogeneic dendritic cell-T cell immunological synapse plays a key role in T cell activation. *J Leukoc Biol*. 2008 Jul;84(1):134-42.
- \*van Royen N, Voskuil M, Hoefler I, Jost M, de Graaf S, Hedwig F, Andert JP, Wormhoudt TA, Hua J, Hartmann S, Bode C, Buschmann I, Schaper W, van der Neut R, Piek JJ, Pals ST: CD44 regulates arteriogenesis in mice and is differentially expressed in patients with poor and good collateralization. *Circulation*. 2004 Apr 6;109(13):1647-52.
- \*McKallip RJ, Do Y, Fisher MT, Robertson JL, Nagarkatti PS, Nagarkatti M: Role of CD44 in activation-induced cell death: CD44-deficient mice exhibit enhanced T cell response to conventional and superantigens. *Int Immunol*. 2002 Sep;14(9):1015-26.
- \*Katoh S, Matsumoto N, Kawakita K, Tominaga A, Kincade PW, Matsukura S: A role for CD44 in an antigen-induced murine model of pulmonary eosinophilia. *J Clin Invest*. 2003 May;111(10):1563-70.
- \*Legg JW, Lewis CA, Parsons M, Ng T, Isacke CM: A novel PKC-regulated mechanism controls CD44 ezrin association and directional cell motility. *Nat Cell Biol*. 2002 Jun;4(6):399-407.
- \*Si-Tahar M, Sitaraman S, Shibahara T, Madara JL: Negative regulation of epithelium-neutrophil interactions via activation of CD44. *Am J Physiol Cell Physiol*. 2001 Mar;280(3):C423-32.
- \*Larkin J, Renukaradhya GJ, Sriram V, Du W, Gervay-Hague J, Brutkiewicz RR: CD44 differentially activates mouse NK T cells and conventional T cells. *J Immunol*. 2006 Jul 1;177(1):268-79.
- \*Xu H, Manivannan A, Liversidge J, Sharp PF, Forrester JV, Crane IJ: Involvement of CD44 in leukocyte trafficking at the blood-retinal barrier. *J Leukoc Biol*. 2002 Dec;72(6):1133-41.
- \*And many other.

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at [www.exbio.cz](http://www.exbio.cz).

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

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](mailto:orders@exbio.cz) | [www.exbio.cz](http://www.exbio.cz)