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## **Monoclonal Antibody To Mouse CD44 Transmembrane Receptor for Hyaluronan**

Monoclonal antibody IM7.8.1 recognizes all isoforms of murine CD44 (Pgp, Ly-24), an 85kDa glycoprotein that is expressed on most cell types and tissues. CD44 is a member of the hyaladherin family of hyaluronan-binding proteins, with structural similarity to selectins. CD44 has been postulated to be involved in many cellular functions including leukocyte homing to lymphoid organs and to sites of inflammation, cell adhesion and activation. Cells and tissue that lack CD44 include platelets, hepatocytes, certain lymphoid cell lines, cardiac muscle, kidney tubular epithelium, testis and portions of the skin.

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<b>Product Number:</b>	T-2034 (Lot 01PO1004)
<b>Clone:</b>	IM7.8.1
<b>Host species, isotype:</b>	Rat IgG2b
<b>Quantity:</b>	200µg
<b>Format:</b>	Affinity purified, lyophilized  Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.09% sodium azide as a preservative.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C  Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC); has been described to work in FACS, for immunoprecipitation and ELISA..  <b>Approximate working dilution for IHC:</b> Frozen sections: 0.1µg/ml (1:4000) Paraffin sections: 10µg/ml (1:40); microwave pretreatment for antigen retrieval is recommended. Optimal dilutions should be determined by the end user.  Suggested positive control: Mouse spleen.  Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Myeloid cell line M1 induced with Dexamethasone.
<b>Antigen, epitope:</b>	The antigen is CD44, also known as Pgp or Ly-24, a polymorphic glycoprotein. The epitope has not been further characterized.

**Antigen distribution:**

**Isolated Cells:** The antigen is described to be present on B-cells, monocytes, macrophages, and a variable subset of thymocytes and peripheral T-cells.

**Tissue Sections:** The antigen is expressed on CD44 positive cells in various tissues e.g. in mouse spleen. There is a strong staining in the red pulp, whereas the staining in the white pulp is weak.

**Specificity:**

**Mouse:** B-cells, monocytes, macrophages, subset of thymocytes and peripheral T-cells.

**Other species:** not tested

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**Selected references**

Trowbridge, I.S. et al.: Biochemical characterization and cellular distribution of polymorphic, murine cell-surface glycoprotein expressed on lymphoid tissues. *Immunogenetics* 15: 299-312 (1982)

Lesley, J. & Trowbridge, I.S.: Genetic characterization of a polymorphic murine cell-surface glycoprotein. *Immunogenetics* 15: 313-20 (1982)

Katoh, S. et al.: Characterization of soluble CD44 in the circulation of mice. Levels are affected by immune activity and tumor growth. *J. Immunol.* 153: 3440-49 (1994)

Lesley, J. et al.: CD44 and its interaction with extracellular matrix. *Adv. Immunol.* 54: 271-335 (1993)

For *in vitro* research only. Caution: this product contains sodium azide, a poisonous and hazardous substance.