

### 43-1087: Monoclonal Antibody to Human/Mouse CD44 NALE™ Purified (Clone: IM7)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	IM7
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD44/Cd44
<b>Gene ID :</b>	960/12505
<b>Uniprot ID :</b>	P16070/P15379
<b>Alternative Name :</b>	LHR, MDU2, MDU3, MIC4, CDw44, Epican, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, Phagocytic glycoprotein 1, Ly-24
<b>Isotype :</b>	Rat IgG2b, kappa

#### Description

The IM7 monoclonal antibody specifically reacts with all the isoforms and both alloantigens of the CD44 glycoprotein (Pgp-1, Ly-24). CD44 is expressed on hematopoietic and non-hematopoietic cells, bone marrow myeloid cells, memory T lymphocytes, periphery activated B cells, CD4+ T lymphocytes, and CD8+ T lymphocytes. The periphery B and T lymphocytes upregulate the expression of CD44. CD44 binds to hyaluronan molecules, acting as an adhesion molecule. The IM7 antibody inhibits collagen-induced arthritis in DBA/1 mice, prevents central nervous system inflammation associated with experimental autoimmune encephalomyelitis, but exacerbates the experimental autoimmune thyroiditis in CBA/J mice. The IM7 antibody also cross-reacts with dog, human, pig, horse, cat, and cow leukocytes.

#### Product Info

<b>Amount :</b>	500 µg
<b>Content :</b>	1 mg/ml in Phosphate-buffered aqueous solution, pH7.2.
<b>Storage condition :</b>	The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/µg of the protein.

#### Application Note

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.