

## Purified anti-mouse CD44 Antibody

<b>Catalog# / Size</b>	156002 / 500 µg
<b>Clone</b>	NIM-R8
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Hermes, Pgp-1, H-CAM, HUTCH-1, ECMR III, gp85, Ly-24
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	CD44 is a 80-95 kD glycoprotein also known as Hermes, Pgp1, H-CAM, or HUTCH. It is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. As B and T cells become activated or progress to the memory stage, CD44 expression increases from low or mid levels to high levels. Thus, CD44 has been reported to be a valuable marker for memory cell subsets. High CD44 expression on Treg cells has been associated with potent suppressive function via high production of IL-10. CD44 is an adhesion molecule involved in leukocyte attachment to and rolling on endothelial cells, homing to peripheral lymphoid organs and to the sites of inflammation, and leukocyte aggregation.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	From in-house testing, this clone does not block IM7. This clone has been used to induce dendrite formation in B cells. <sup>1</sup>
<b>Application References</b>	1. Santos-Argumedeo L, <i>et al.</i> 1997. <i>Immunology</i> . 90:147 (FC, Agonist)
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_2750249 (BioLegend Cat. No. 156002)

### Antigen Details

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<b>Structure</b>	Variable splicing of CD44 gene generates many CD44 isoforms, 80-95 kD
<b>Distribution</b>	All leukocytes, epithelial cells, endothelial cells, hepatocytes, mesenchymal cells
<b>Function</b>	Leukocyte attachment and rolling on endothelial cells, stromal cells and ECM
<b>Ligand/Receptor</b>	Hyaluronan, MIP-1β, fibronectin, collagen
<b>Cell Type</b>	Leukocytes, Epithelial cells, Endothelial cells, Mesenchymal cells, B cells

**Biology Area** Immunology  
**Molecular Family** Adhesion Molecules, CD Molecules  
**Antigen References**

1. Barclay AN, *et al.* 1997. *The Leukocyte Antigen FactsBook Academic Press.*
2. Haynes BF, *et al.* 1991. *Cancer Cells* 3:347.
3. Goldstein LA, *et al.* 1989. *Cell* 56:1063.
4. Mikecz K, *et al.* 1995. *Nat. Med.* 1:558.
5. Hegde V, *et al.* 2008. *J. Leukocyte Biol.* 84:134.
6. Liu T, *et al.* 2009. *Biol. Direct* 4:40.

**Gene ID** [12505](#)

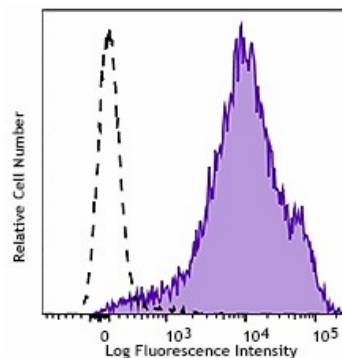
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse CD44, APC/Fire 750™ anti-mouse CD44

## Product Data



C57BL/6 mouse splenocytes were stained with purified CD44 (clone NIM-R8, filled histogram) or Rat IgG2a,  $\kappa$  isotype control (open histogram), followed by anti-rat IgG PE.

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