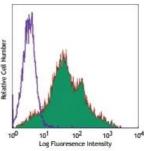
Pacific Blue[™] anti-mouse/human CD44

-	1115095 / 25 μg 1115100 / 100 μg	tel athre cell Number
Clone:	IM7	
lsotype:	Rat IgG2b, к	
Immunogen:	Dexamethasone-induced myeloid leukemia M1 cells	
Reactivity:	Human	Relativ
Preparation:	The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.	100
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	C57BL/6 Mo stained wit
Concentration:	0.5	



C57BL/6 Mouse Splenocytes stained with IM7 Pacific Blue™

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤ 0.25 microg per 10⁶ cells in 100 microL volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue[™] has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue[™] conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application Notes: Clone IM7 has been reported to recognize an epitope common to alloantigens and all isoforms of CD44^{17,18} that is located between amino acids 145 and 186²⁰. This clone has been verified for immunocytochemistry (ICC) and frozen immunohistochemistry (IHC-F). Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections^{6,7}, complement-mediated cytotoxicity¹, immunoprecipitation^{1,3}, and *in vivo* inhibition of DTH^{4,5}. The LEAF ™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 103014). For highly sensitive assays, we recommend Ultra-LEAF ™ purified antibody (Cat. No. 103046) with a lower endotoxin limit than standard LEAF ™ purified antibodies (Endotoxin <0.01 EU/µg).</p>

Application References:	 Trowbridge IS, et al. 1982. Immunogenetics 15:299. (ICFC, IP, CMCD) Katoh S, et al. 1994. J. Immunol. 153:3440. (ELISA) Budd RC, et al. 1987. J. Immunol. 138:3120. (IP) Camp RL, et al. 1993. J. Exp. Med. 178:497. (Block) Weiss JM, et al. 1997. J. Cell Biol. 137:1137. (Block) Frank NY, et al. 2005. Cancer Res. 65:4320. (IHC) PubMed Cuff CA, et al. 2001. J. Clin. Invest. 108:1031. (IHC) Lee JW, et al. 2006. Nature Immunol. 8:181. Zhang N, et al. 2005. J. Immunol. 174:6967. PubMed Huabiao C, et al. 2005. J. Immunol. 175:591. PubMed Huabiao C, et al. 2008. Blood 111:2436. PubMed Wang XY, et al. 2008. Blood 111:2091. PubMed Kenna TJ, et al. 2009. J. Transl. Med. 7:89. (FC) PubMed Kmieciak M, et al. 2009. J. Transl. Med. 7:89. (FC) PubMed Chen YW, et al. 2010. Int. J. Cancer Ther. 9:2879. PubMed Zheng Z, et al. 1995. J. Cell. Biol. 130:485. Wiranowska M, et al. 2010. Int. J. Cancer 127:532. Hirokawa Y, et al. 2014. Am J Physiol Gastrointerest Liver Physiol. 306:547. PubMed Sandmaier BM, et al. 1998. Blood 91:3494.
Description:	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.
Antigen References:	1. Barclay AN, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Haynes BF, <i>et al.</i> 1991. <i>Cancer Cells</i> 3:347.

3. Goldstein LA, *et al.* 1989. *Cell* 56:1063.

4. Mikecz K, et al