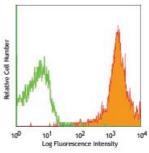
PE/Cy5 anti-mouse/human CD44

| IM7 | |
|---|---|
| Rat IgG2b, κ | 2 |
| Dexamethasone-induced myeloid leukemia M1 cells | elative Cell Number |
| Human | Relativ |
| The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody. | 10 |
| Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. | C57BL/6 stained |
| 0.2 | |
| | IM7 Rat IgG2b, κ Dexamethasone-induced myeloid leukemia M1 cells Human The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody. Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |



C57BL/6 mouse splenocytes stained with IM7 PE/Cy5

Applications:

Applications: Flow Cytometry

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

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 Kenna TJ, et al. 2009. Blood PubMed Kmieciak M, et al. 2009. J. Transl. Med. 7:89. (FC) PubMed Chen YW, et al. 2010. Mol. 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

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