

APC/Cy7 anti-mouse/human CD44

Catalog # / Size: 103027 / 25 µg
103028 / 100 µg

Clone: IM7

Isotype: Rat IgG2b, κ

Immunogen: Dexamethasone-induced myeloid leukemia M1 cells

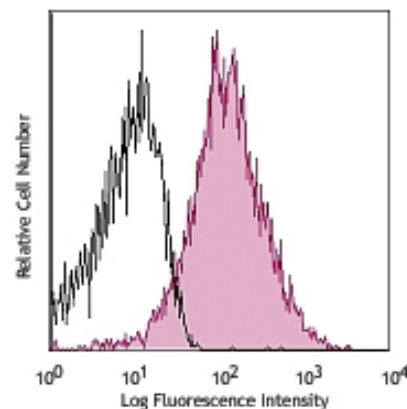
Reactivity: Mouse, Human, **Cross-Reactivity:** Baboon, Chimpanzee, Cynomolgus, Rhesus, Horse (Equine), Cattle (Bovine, Cow), Swine (Pig, Porcine), Dog (Canine), Cat (Feline)

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 splenocytes stained with IM7 APC/Cy7

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl 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. 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 sterile-filtered) is recommended for functional assays (Cat. No. 103014).

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

- Application References:**
1. Trowbridge IS, *et al.* 1982. *Immunogenetics* 15:299. (ICFC, IP, C')
 2. Katoh S, *et al.* 1994. *J. Immunol.* 153:3440. (ELISA)
 3. Budd RC, *et al.* 1987. *J. Immunol.* 138:3120. (IP)
 4. Camp RL, *et al.* 1993. *J. Exp. Med.* 178:497. (Block)
 5. Weiss JM, *et al.* 1997. *J. Cell Biol.* 137:1137. (Block)
 6. Frank NY, *et al.* 2005. *Cancer Res.* 65:4320. (IHC) PubMed
 7. Cuff CA, *et al.* 2001. *J. Clin. Invest.* 108:1031. (IHC)
 8. Lee JW, *et al.* 2006. *Nature Immunol.* 8:181.
 9. Zhang N, *et al.* 2005. *J. Immunol.* 174:6967. PubMed
 10. Huabiao C, *et al.* 2005. *J. Immunol.* 175:591. PubMed
 11. Gui J, *et al.* 2007. *Int. Immunol.* 19:1201. PubMed
 12. Wang XY, *et al.* 2008. *Blood* 111:2436. PubMed
 13. Kenna TJ, *et al.* 2008. *Blood* 111:2091. PubMed
 14. Yamazaki J, *et al.* 2009. *Blood* PubMed
 15. Kmiecik M, *et al.* 2009. *J. Transl. Med.* 7:89. (FC) PubMed
 16. Chen YW, *et al.* 2010. *Mol. Cancer Ther.* 9:2879. PubMed

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, *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.



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5. Hegde V, *et al.* 2008. *J. Leukocyte Biol.* 84:134.
6. Liu T, *et al.* 2009. *Biol. Direct* 4:40.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	APC/Cy7 Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC



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