

FITC anti-mouse/human CD44

Catalog # / Size: 103005 / 50 µg
103021 / 25 tests
103022 / 100 tests
103006 / 500 µg

Clone: IM7

Isotype: Rat IgG2b, κ

Immunogen: Dexamethasone-induced myeloid leukemia M1 cells

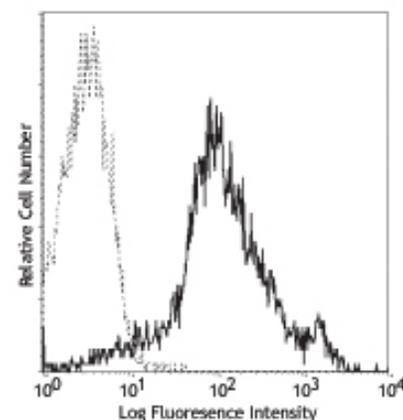
Reactivity: Mouse, Human, **Cross-Reactivity:** Baboon, Chimpanzee, Cynomolgus, Rhesus, Squirrel Monkey, Horse (Equine), Cattle (Bovine, Cow), Swine (Pig, Porcine), Dog (Canine), Cat (Feline)

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

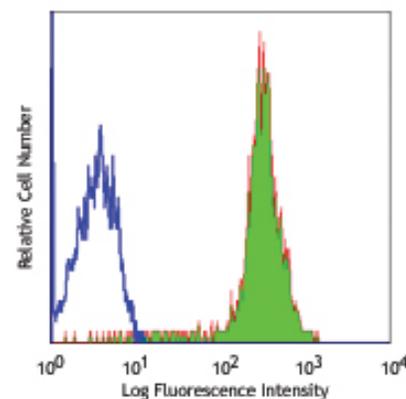
Formulation: test sizes: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
µg sizes: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: test size: lot-specific; µg size: 0.5 mg/ml

Storage: The CD44 antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 splenocytes stained with IM7 FITC



Human peripheral blood lymphocytes stained with IM7 FITC

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Clone IM7 has been reported to recognize an epitope common to alloantigens and all isoforms of CD44^{17,18}. 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).

- Application References:**
1. Trowbridge IS, *et al.* 1982. *Immunogenetics* 15:299. (ICFC, IP, CMCD)
 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
 17. Zheng Z, *et al.* 1995. *J. Cell. Biol.* 130:485.
 18. Wiranowska M, *et al.* 2010. *Int. J. Cancer* 127:532.
 19. Kamijo S, *et al.* 2013. *J. Immunol.* 190:4489. PubMed



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

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.
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
FITC anti-mouse CD62L	MEL-14	FC
Cell Staining Buffer		FC, ICC, ICFC
FITC Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.