

Product Data Sheet

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

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.

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 μ I to 5 μ I 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} that is located between amino acids 145 and 186²⁰. 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)

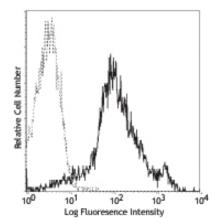
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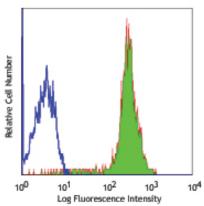
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C57BL/6 splenocytes stained with



Human peripheral blood lymphocytes stained with IM7 FITC



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19. Hirokawa Y, et al. 2014. Am J Physiol Gastrointerest Liver Physiol. 306:547. PubMed

20. 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, 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.
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 Mikecz K, et al. 1995. Nat. Med. 1:558.
 Hegde V, et al. 2008. J. Leukocyte Biol. 84:134.
 Liu T, et al. 2009. Biol. Direct 4:40.

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



