PE anti-human CD44 Antibody

Catalog# / Size	338807 / 25 tests 338808 / 100 tests
Clone	BJ18
Regulatory Status	RUO
Workshop	VI A034
Other Names	Hermes, Pgp-1, H-CAM, HUTCH-1, ECMR III, gp85, Ly-24
Isotype	Mouse IgG1, κ
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 a low or mid level of intensity to high expression levels. Thus, CD44 has been reported to be a valuable marker for memory cell subsets. 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.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Normal human PBL
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**
Application	FC - Quality tested
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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application References **(PubMed link indicates BioLegend citation)**	1. Kishimoto T, *et al.* eds. 1997 *Leucocyte Typing VI:White Cell Differentiation Antigen.* Garland Publishing Inc.
Product Citations	1. Qiao X, *et al.* 2021. Elife. 10: . PubMed 2. Park J, *et al.* 2021. Exp Ther Med. 22:808. PubMed 3. Diessner J, *et al.* 2014. Cell Death Dis. 5:1149. PubMed 4. Liu MY, *et al.* 2019. Oncol Lett. 18:3664. PubMed 5. Palamides P, *et al.* 2016. Dis Model Mech. 9: 985 - 997. PubMed 6. Zeng F, *et al.* 2021. Cancer Gene Therapy. . PubMed 7. Murata K, *et al.* 2019. Oncol Lett. 17:5830. PubMed

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RRID

AB_2260222 (BioLegend Cat. No. 338807)
AB_2076578 (BioLegend Cat. No. 338808)

Antigen Details

Structure	Variable splicing of CD44 gene generates many CD44 isoforms, 85 kD
Distribution	All leukocytes, epithelial cells, endothelial cells, hepatocytes, mesenchymal cells
Function	Leukocyte attachment and rolling on endothelial cells, stromal cells and ECM
Ligand/Receptor	Hyaluronan, MIP-1β, fibronectin, collagen
Cell Type	Endothelial cells, Epithelial cells, Leukocytes, Mesenchymal cells, Mesenchymal Stem Cells, Tregs
Biology Area	Cell Adhesion, Cell Biology, Immunology, Stem Cells
Molecular Family	Adhesion Molecules, CD Molecules
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.
Gene ID	960

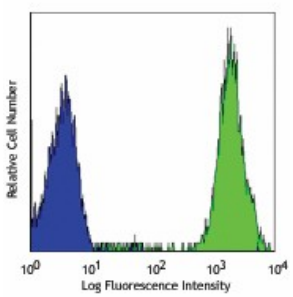
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

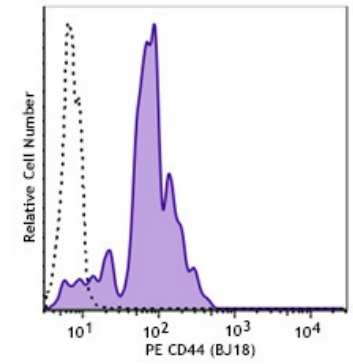
Other Formats

Purified anti-human CD44, FITC anti-human CD44, APC anti-human CD44, PE anti-human CD44, Brilliant Violet 421™ anti-human CD44, Purified anti-human CD44 (Maxpar® Ready), Alexa Fluor® 700 anti-human CD44, PE/Dazzle™ 594 anti-human CD44, PE/Cyanine7 anti-human CD44, APC/Fire™ 750 anti-human CD44, PerCP/Cyanine5.5 anti-human CD44, Pacific Blue™ anti-human CD44, TotalSeq™-A0125 anti-human CD44, TotalSeq™-C0125 anti-human CD44, Alexa Fluor® 488 anti-human CD44, Brilliant Violet 785™ anti-human CD44, TotalSeq™-B0125 anti-human CD44 Antibody, TotalSeq™-D0125 anti-human CD44

Product Data



Human peripheral blood lymphocytes stained with BJ18 PE



Pre-lysed human blood leukocytes were stained with CD44 (clone BJ18) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

Data was acquired on the Moxi Flow, exported, and processed using FlowJo software.

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