Technical Data Sheet

PE Mouse anti-Human CD52

Product Information

Material Number:
Alternate Name:
Size:
Vol. per Test:
Clone:
Immunogen:
Isotype:
Reactivity:
Storage Buffer:

562945

Cambridge pathology 1 Ag; CAMPATH-1; Epididymal secretory protein E5; HE5 50 tests 5 µl 4C8 Human T Lymphocytes Mouse (BALB/c) IgG3, κ QC Testing: Human Aqueous buffered solution containing BSA, protein stabilizer, and ≤0.09% sodium azide.

Description

The 4C8 monoclonal antibody specifically binds to CD52 which is also known as Cambridge pathology 1 antigen (CAMPATH-1) or Human epididymis-specific protein 5 (HE5). CD52 is a highly N-glycosylated, 25-29 kDa protein whose C-terminus is glycophosphatidylinositol anchored in the membrane. It is highly expressed on the surface of thymocytes and mature lymphocytes but not on their stem cell precursors. It is also expressed on monocytes, dendritic cells, eosinophils and epithelial cells of the epididymis and seminal vesicles but not on neutrophils, plasma cells, platelets or erythrocytes. Although its functional role is not well characterized, the CD52 antigen serves as an exquisitely sensitive target antigen for antibody and complement-mediated lysis of CD52-positive cells. Anti-CD52 antibodies are being used clinically to remove lymphocytes from transplanted bone marrow cell preparations and in the treatment of some malignant diseases.



Flow cytometric analysis of human CD52 expression on human peripheral blood lymphocytes. Whole blood was treated with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899) to remove erythrocytes. The cells were washed and then stained with either PE Mouse IgG3, κ Isotype Control (Cat. No. 556659; dashed line histogram) or PE Mouse Anti-Human CD52 (Cat. No. 562945; solid line histogram). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application								
Flow cytor	netry				Routinely Tested	ested		
Suggeste	d Compani	on Product	ts					
Catalog Nu	mber	Name				Size	Clone	
554656		Stain Bu	ffer (FBS)			500 ml	(none)	
555899		Lysing Buffer				100 ml	(none)	
556659		PE Mous	se IgG3, κ Isot	ype Control		50 tests	J606	
BD Bioscie	ences							
bdbiosciences.	.com							
United States 877.232.8995	Canada 800.979.9408	Europe 32.53.720.550	Japan 0120.8555.90	Asia Pacific 65.6861.0633	Latin America/Caribbean 55.11.5185.9995			

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For country contact information, visit bdbiosciences.com/contact												
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Product Notices

- This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^{-6} cells in a 100-µl experimental 1. sample (a test).
- An isotype control should be used at the same concentration as the antibody of interest. 2
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols. 3.
- For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at 4. www.bdbiosciences.com/colors.
- 5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- 6. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Masuyama J, Yoshio T, Suzuki K, et al. Characterization of the 4C8 antigen involved in transendothelial migration of CD26(hi) T cells after tight adhesion to human umbilical vein endothelial cell monolayers.. J Exp Med. 1999; 189(6):979-990. (Immunogen: Blocking, Flow cytometry, Stimulation, Western blot) Zola H, Swart B, Nicholson I, Voss E. Leukocyte and Stromal Cell Molecules. The CD Markers. Hoboken, New Jersey: John Wiley & Sons, Inc.; 2007:1-581. (Biology)

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 800.979.9408
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