PE/Dazzle[™] 594 anti-human CD38

Catalog # / Size:	2383150 / 100 tests 2383145 / 25 tests	
Clone:	HB-7	
Isotype:	Mouse IgG1, к	Log Fluorescence Intensity
Immunogen:	BJAB human B cell line.	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle [™] 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle [™] 594 and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Human peripheral blood lymphocytes were stained with CD38 (clone HB-7) PE/Dazzle™
Workshop Number:	III 155	594 (filled histogram) or mouse IgG1, κ PE/Dazzle [™] 594 isotype control (open histogram).
Concentration:	Lot-specific	

Applications: . .

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Applications:	Flow Cytometry	
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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	
	* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.	
Application Notes:	Additional reported applications for the relevant formats include: indirect immunofluorescent staining1 and Western blotting2.	
Application References:	1. Tedder T, <i>et al.</i> 1984. <i>Tissue Antigens.</i> 24:140. (IF) 2. Inoue S, <i>et al.</i> 1997. <i>J. Immunol.</i> 159:5226. (WB) 3. Zhao Y, <i>et al.</i> 2011. <i>J. Biol. Chem.</i> 286:22170.	
Description:	CD38 is a 45 kD type II transmembrane glycoprotein also known as T10. It is an ADP-ribosyl hydrolase expressed at variable levels on hematopoietic cells and in some non-hematopoietic tissues (such as brain, muscle, and kidney). In humans, it is expressed at high levels on plasma cells and activated T and B cells, natural killer (NK) lymphocytes, myeloblasts, and erythroblasts. By functioning as both a cyclase and a hydrolase, CD38 mediates lymphocyte activation, adhesion, and the metabolism of cADPR and NAADP. CD31 is the ligand of CD38.	
Antigen References:	1. Ferrero E, <i>et al.</i> 1999. <i>J. Leukoc. Biol.</i> 65:151. 2. Lund F, <i>et al.</i> 1995. <i>Immunol. Today</i> 16:469.	

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