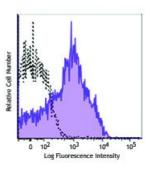
APC/Fire[™] 750 anti-human CD38

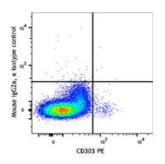
Catalog # / Size:	2383130 / 100 tests 2383125 / 25 tests
Clone:	HB-7
lsotype:	Mouse IgG1, к
Immunogen:	BJAB human B cell line.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	750 under optimal conditions.
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD38 (clone HB-7) APC/Fire[™] 750 (filled histogram) or mouse IgG1, ĸ APC/Fire[™] 750 isotype control (open histogram).

Applications:

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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.	
	* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.	Hu gra
Application Notes:	The epitope recognized by MI15 is found within the ectodomain of the CD138 core protein. It has been reported that MI15 blocks the binding of clone B-B4 but not clone DL-101 by flow cytometric analysis. Clones DL-101 and MI15 exhibit differential staining patterns on <i>in</i> <i>vitro</i> generated plasma cells and some CD138 ⁺ cell lines. ⁴	Tru (Ca (cl his iso (op
	Additional reported applications for the relevant formats include: immunofluorescent staining ¹ , Western blotting ² , and immunohistochemical staining of formalin-fixed paraffin-embedded frozen tissue sections ³ .	



Human peripheral blood granulocytes were stained with True-Stain Monocyte Blocker™ (Cat. No. 426103) and Siglec-9 (clone K8) APC/Fire™ 750 (filled histogram) or mouse IgG1, ĸ isotype control APC/Fire™ 750 (open histogram).

Application References:	 Costes V, et al. 1999. Hum. Pathol. 30:1405. (IF) Gattei V, et al. 1999. Br. J. Haematol. 104:152. (WB) Bologna-Molina R, et al. 2008. Oral Oncol. 44:805. (IHC) Itoua MR, et al. 2014. Biomed. Res. Int. 2014:536482.
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.