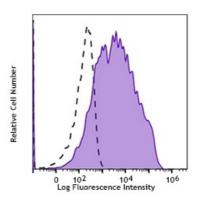
Spark NIR[™] 685 anti-human CD38

Catalog # / Size:		
Clone:	HIT2	
lsotype:	Mouse IgG1, к	
Immunogen:	Concentrated supernatant from PMA- activated human peripheral blood leukocytes	
Reactivity:	Human, Other	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Spark NIR™ 685 under optimal conditions.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)	
Workshop Number:	III 155	6 (
Concentration:	Lot-specific	-

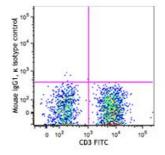


Human peripheral blood lymphocytes were stained with CD38 (clone HIT2) Spark NIR™ 685 (filled histogram) or mouse IgG1, κ Spark NIR™ 685 isotype control (open histogram).

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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* Spark NIR™ 685 has a maximum excitation of 665 nm and a maximum emission of 685 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue

sections.6



Application References:	 Kishimoto T, <i>et al.</i> Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London. Dieu M. 1998. <i>J. Exp. Med.</i> 188:373. Esser M, <i>et al.</i> 2001. <i>J. Virol.</i> 75:6173. Jeannin P, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:2044. Kapsogeorgou EK, <i>et al.</i> 2001. <i>J. Immunol.</i> 166:3107. van der Voort R, <i>et al.</i> 1997. <i>J. Exp. Med.</i> 185:2121. (IHC) Bende RJ, <i>et al.</i> 2003. <i>Am. J. Pathol.</i> 162:105. Lehner M, <i>et al.</i> 2008. <i>J. Leukoc. Biol.</i> 83:883. PubMed Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC)
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, muscles, and kidney). In humans, it is expressed at high levels on plasma cells and activated T and B cells. 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:	

_