## **Product Data Sheet**

## Brilliant Violet 510<sup>™</sup> anti-human CD38

Catalog # / Size:	2383060 / 100 tests 2383055 / 25 tests	A. A.
Clone:	HB-7	
Isotype:	Mouse IgG1, к	∦ (( <b>!</b> ∿/ \
Immunogen:	BJAB human B cell line.	et at ive Cell Mumber
<b>Reactivity:</b>	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510 <sup>™</sup> under optimal conditions. The solution is free of unconjugated Brilliant Violet 510 <sup>™</sup> and unconjugated antibody.	0 10 <sup>2</sup> 10 <sup>3</sup> 10 <sup>4</sup> 10 <sup>5</sup> Log Fluorescence Intensity
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	Human peripheral blood lymphocytes were stained with CD38 (clone HB-7) Brilliant Violet
Workshop Number:	III 155	510 <sup>™</sup> (filled histogram) or mouse IgG1, κ Brilliant Violet 510 <sup>™</sup> isotype control (open histogram).
<b>Concentration:</b>	Lot-specific	

## **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 $\leq 5$ 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.
	Brilliant Violet 510 <sup>™</sup> excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. <b>Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.</b> Refer to your instrument manual or manufacturer for support. Brilliant Violet 510 <sup>™</sup> is a trademark of Sirigen Group Ltd.
	This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com 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
 1. Ferrero E, et al. 1999. J. Leukoc. Biol. 65:151.

 References:
 2. Lund F, et al. 1995. Immunol. Today 16:469.