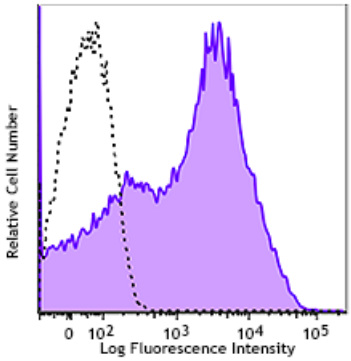
SONY

Product Data Sheet

PE anti-human CD38

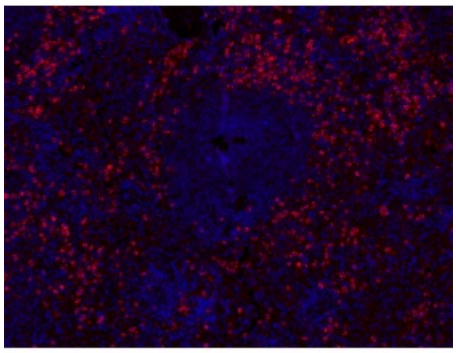
Catalog # / Size:	2585515 / 25 tests 2585520 / 100 tests
Clone:	S17015A
Isotype:	Mouse IgG1, κ
Immunogen:	Human CD38 transfectants
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	IV 103
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD38 (clone S17015A) PE (filled histogram) or mouse IgG1, κ PE 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.
Application Notes:	S17015A does not cross-block binding of clones HIT2, HB-7 or S17015F also raised against human CD38 based on in-house testing.



Human paraffin-embedded spleen tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with 1X Citric buffer pH 6.0 at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 twice for five minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/mL of purified anti-human CD66b (clone QA17A51) antibody overnight at 4°C. On the next day, tissue was incubated with Alexa Fluor® 594 Goat anti-mouse IgG (clone poly4053) antibody (red). Nuclei were counter-stained with DAPI (blue). The image was scanned with a 10X objective and stitched with MetaMorph® software.

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

Application References:

1. Moller P, *et al*. 1989. *Am. J. Clin. Pathol*. 1:18. (IHC-F)
2. Tierens AM, *et al*. 2010. *Haematologica*. 95:1334. (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:

1. Ferrero E, *et al*. 1999. *J Leukoc Biol*. 65:151.

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

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