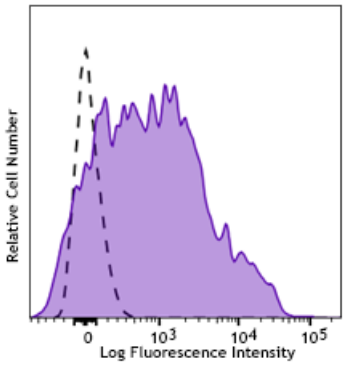
SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-human CD38

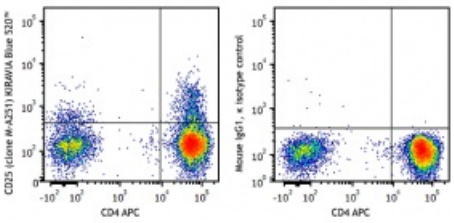
Catalog # / Size:	2586045 / 25 tests 2586050 / 100 tests
Clone:	S17015F
Isotype:	Mouse IgG2a, κ
Immunogen:	Human CD38 transfectants
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Workshop Number:	IV A053
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD38 (clone S17015F) PerCP/Cyanine5.5 (filled histogram) or mouse IgG2a, κ PerCP/Cyanine5.5 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. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Application Notes:	S17015F is able to cross-block binding of clones HIT2 and HB-7 also raised against human CD38, but not S17015A based on in-house testing.



Human peripheral blood lymphocytes were stained with CD4 APC and CD25 (clone M-A251) KIRAVIA Blue 520™ (left) or mouse IgG1, κ KIRAVIA Blue 520™ isotype control (right).

Application References:

1. Li H and Pauza CD. 2015. *Eur. J. Immunol.* 45:298. (IHC)

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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 Leuko Biol.* 65:151.
2. Lund F, *et al.* 1995. *Immunol.* Today 16:469.