SONY

Product Data Sheet

PE/Cyanine7 anti-human CD38

Catalog # / Size: 2586070 / 100 tests
2586065 / 25 tests

Clone: S17015F

Isotype: Mouse IgG2a, κ

Immunogen: Human CD38 transfectants

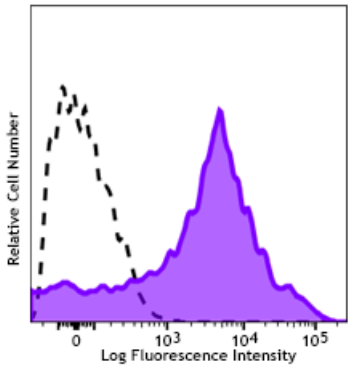
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Workshop Number: IV A053

Concentration: Lot-specific

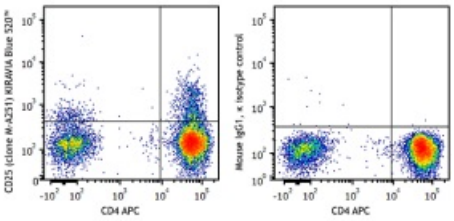


Human peripheral lymphocytes were stained with CD38 (clone S17015F) PE/Cyanine7 (filled histogram) or mouse IgG2a, κ PE/Cyanine7 isotype control (open histogram).

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.



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 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.

Application References:

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

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.

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