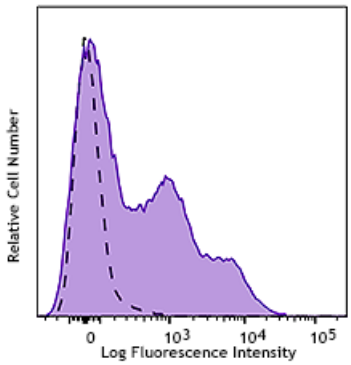
SONY

Product Data Sheet

APC/Cyanine7 anti-human CD38

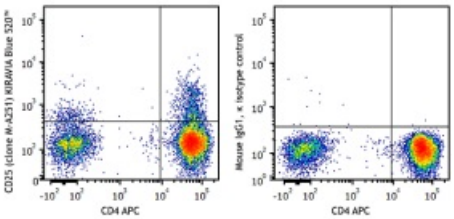
Catalog # / Size:	2585585 / 25 tests 2585590 / 100 tests
Clone:	S17015A
Isotype:	Mouse IgG1, κ
Immunogen:	Human CD38 transfectants
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Human peripheral lymphocytes were stained with anti-human CD38 (clone S17015A) APC/Cyanine7 (filled histogram) or mouse IgG1, κ APC/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.
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 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. Garlanda C, *et al.* 1997. *Eur. J. Cell Biol.* 73:368. (FC)
2. Knowles HJ, *et al.* 2004. *Circ. Res.* 95:162. (IHC)
3. Trempus CS, *et al.* 2003. *J. Invest. Dermatol.* 120:501.
4. Winding B, *et al.* 2002. *Clin. Cancer Res.* 8:1932. (IHC)
5. Voswinckel R, *et al.* 2003. *Circ. Res.* 93:372. (IHC)
6. Kairaitis LK, *et al.* 2005. *Am. J. Physiol. Renal. Physiol.* 288:F198. (IHC, WB)
7. Ao A, *et al.* 2008. *P. Natl. Acad. Sci. USA* 105:7821. PubMed
8. Zaynagetdinov R., *et al.* 2011. *J Immunol.* 187:5703. PubMed.

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

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