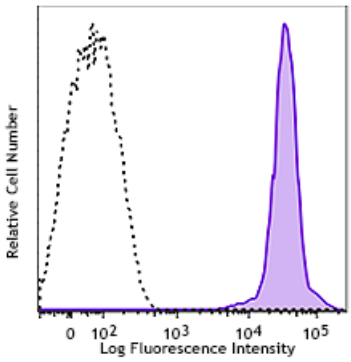
SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-human β2-microglobulin

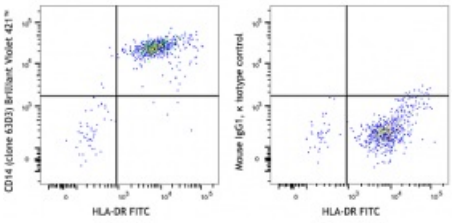
Catalog # / Size:	2579050 / 100 tests 2579045 / 25 tests
Clone:	A17082E
Isotype:	Mouse IgG1, κ
Immunogen:	Recombinant human Beta2-microglobulin
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cyanine5.5 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with β2-microglobulin (clone A17082E) PerCP/Cyanine5.5 (filled histogram) or mouse IgG1, 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. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Application Notes:	Based on in-house testing, staining for clone A17082E is not blocked by clone W6/32 (anti-HLA-A,B,C) and is only partially blocked by clone 2M2 also raised against human β2-microglobulin.



Human peripheral blood monocytes were stained with HLA-DR FITC and Brilliant Violet 421™ anti-human CD14 (clone 63D3) (left) or Brilliant Violet 421™ mouse IgG1, κ isotype control (right).

Application References:

1. Stelner E, *et al.* 2006. *J. Cell Sci.* 119:459.
2. Stewart DA, *et al.* 2012. *Mol. Cancer Res.* 10:727. (IF)

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Description: β2-microglobulin (β2M) is a 12 kD nonpolymorphic Ig like protein. It is a non-membrane-anchored glycoprotein and is noncovalently associated with 39-44 kD polymorphic heavy chains of MHC class I molecules to form HLA class I antigen complex. In association with HLA class I, β2M is expressed on all leukocytes, platelets, endothelial cells, and epithelial cells. β2M plays an essential role both in governing MHC class I molecules stability and in promoting antigen binding and presenting the antigen to CD3/TCR complex of $CD8^+$ T cells.

Antigen References:

1. Engelhard VH. 1994. *Curr Opin Immunol*. 6:13.
2. Williams DB, *et al*. 1989. *J Immunol*. 142:2796.
3. Danliczyk UG and TL. Delovitch. 1994. *J Immunol*. 153:3533.
4. Williams A, *et al*. 2002. *Tissue Antigens*. 59:3.