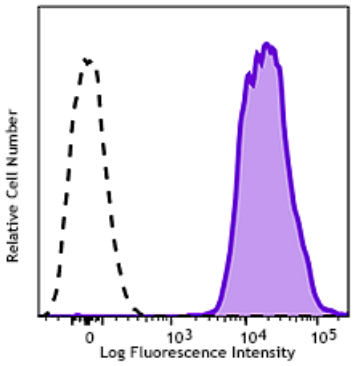
SONY

Product Data Sheet

APC/Fire™ 750 anti-human β2-microglobulin

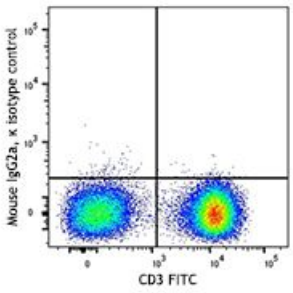
Catalog # / Size:	2578550 / 100 tests 2578545 / 25 tests
Clone:	A17082A
Isotype:	Mouse IgG1, κ
Immunogen:	Recombinant human Beta2-microglobulin
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	750 under optimal conditions.
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with anti-human β2-microglobulin (clone A17082A) APC/Fire™ 750 (Filled Histogram) or Mouse IgG1, κ APC/Fire™ 750 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. * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes:	Clone A17082A partially cross-blocks anti-human ß2-microglobulin clone 2M2 and does not block anti-human HLA-A,B,C clone W6/32 staining, based on in-house testing.



Application References:

1. Singer, *et al*. 2014. *PLoS One*. 9(4):e94106. PMID: 24743304
2. Klaile, *et al*. 2013. *Respir Res*. 14:85. PMID 23941132

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.

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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.

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