SONY

Product Data Sheet

APC/Fire™ 750 anti-human β2-microglobulin

Catalog # / Size: 2181570 / 100 tests
2181565 / 25 tests

Clone: 2M2

Isotype: Mouse IgG1, κ

Immunogen: Purified human β2-microglobulin

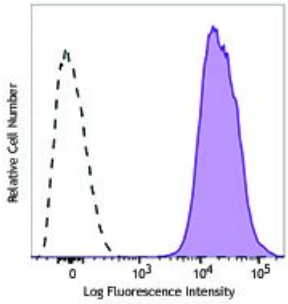
Reactivity: Human, Non-human primate, Other

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 BSA (origin USA).

Workshop Number: 750 under optimal conditions.

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with anti-human β2-microglobulin (clone 2M2) APC/Fire™ 750 (filled histogram), or mouse IgG1, κAPC/Fire™ 750 isotype control (open histogram).

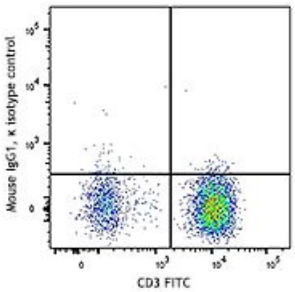
Applications:

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: Additional reported applications (for the relevant formats) include: Western blotting, and Other.



Human peripheral blood lymphocytes stained with purified MEM-55, followed by anti-mouse IgGs FITC

Application References:

1. Meissner TB, *et al.* 2010. *Proc Natl Acad Sci USA.* PubMed
2. Rizvi SM, *et al.* 2011. *J. Immunol.* 186:2309. PubMed
3. Meissner TB, *et al.* 2012. *J Immunol.* 188:4951. PubMed.

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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.