

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

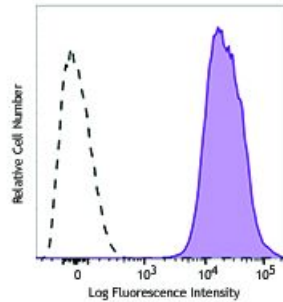
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™

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 2M2) APC/Fire™ 750 (filled histogram), or mouse IgG1, κ APC/Fire™ 750 isotype control (open histogram).

Applications:

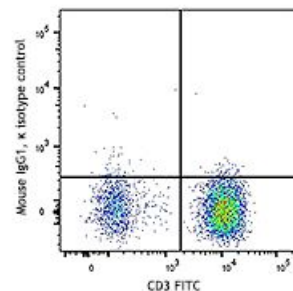
Applications: Flow Cytometry

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

- 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.

- 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.