

**APC/Fire™ 750 anti-human β2-microglobulin**

**Catalog # / Size:** 2578545 / 25 tests  
2578550 / 100 tests

**Clone:** A17082A

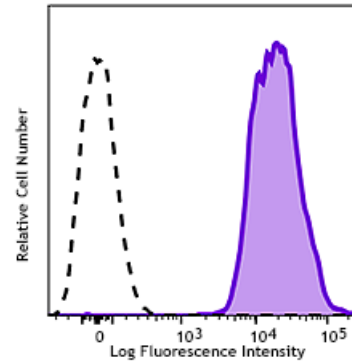
**Isotype:** Mouse IgG1, κ

**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).



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 β2-microglobulin clone 2M2 and does not block anti-human HLA-A,B,C clone W6/32 staining, based on in-house testing.

**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<sup>+</sup> 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.