SONY

Product Data Sheet

PE/Cy7 anti-human β2-microglobulin

Catalog # / Size: 2181590 / 100 tests
2181585 / 25 tests

Clone: 2M2

Isotype: Mouse IgG1, κ

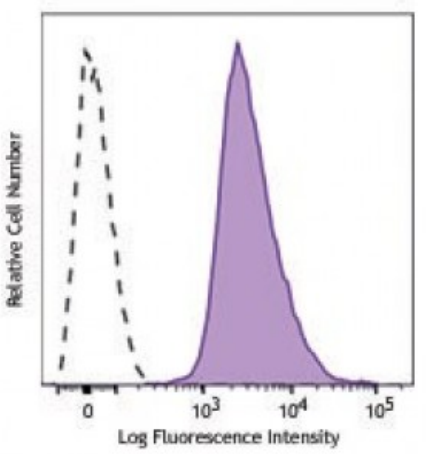
Immunogen: Purified human β2-microglobulin

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with anti-human β2-microglobulin (clone 2M2) PE/Cy7 (filled histogram), or mouse IgG1, κ PE/Cy7 (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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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.

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