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

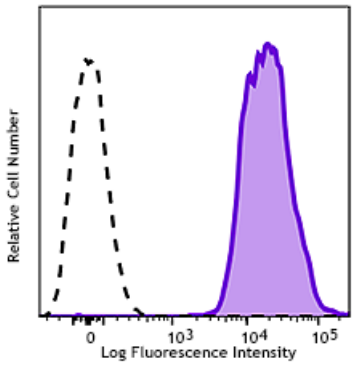
Reactivity: Human

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 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).

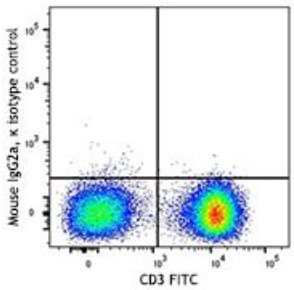
Applications:

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.



C57BL/6 mouse frozen intestine section was fixed with 4% paraformaldehyde (PFA) for 10 minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. Then the section was stained with 10 µg/mL of anti-mouse CD45 (clone S18009D) Alexa Fluor® 488 (green), anti-mouse CD326 (clone G8.8) Alexa Fluor® 647 (red) overnight at 4°C. Nuclei were counterstained with DAPI (blue). The image was captured by 10X objective.

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

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

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.

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.