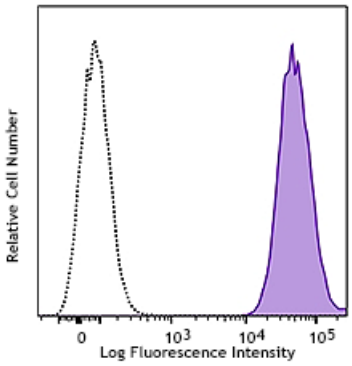
SONY

Product Data Sheet

Purified anti-human β2-microglobulin

Catalog # / Size:	2578510 / 100 µg
Clone:	A17082A
Isotype:	Mouse IgG1, κ
Immunogen:	Recombinant human Beta2-microglobulin
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5 mg/ml



Human peripheral blood lymphocytes were stained with purified B2M (clone A17082A filled histogram) or mouse IgG1,κ isotype control (open histogram) followed by anti-mouse IgG PE.

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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
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.

Application 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.

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.

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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.