

**BM2145****Monoclonal Antibody to Beta-2-microglobulin - Purified**

<b>Alternate names:</b>	B2M, Beta 2 microglobulin, Beta-2 microglobulin
<b>Quantity:</b>	0.2 mg
<b>Concentration:</b>	0.2 mg/ml (prior to lyophilization)
<b>Background:</b>	Beta-2 Microglobulin non-covalently associates with the 44 kDa alpha chain to form the HLA Class I antigen complex. Human beta 2 Microglobulin associated with HLA Class I antigens are expressed on many types of cells including lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells, and epithelial cells. It is absent on erythrocytes.
<b>Uniprot ID:</b>	<a href="#">P61769</a>
<b>NCBI:</b>	<a href="#">NP_004039.1</a>
<b>GeneID:</b>	<a href="#">567</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Recommended Isotype Controls:</b>	AM03096PU-N
<b>Clone:</b>	B1G6
<b>Immunogen:</b>	Purified human Beta 2-Microglobulin
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction <b>Purification:</b> Protein A Chromatography <b>Buffer System:</b> PBS <b>Preservatives:</b> None <b>Stabilizers:</b> 1 mg/ml BSA <b>Reconstitution:</b> Restore with 1.0 ml distilled water
<b>Applications:</b>	<b>Purification of the HLA antigens associated with Beta 2-Microglobulin.</b> <b>Fluorescence Microscopy or Flow Cytometry:</b> 2 µl/5x10 <sup>5</sup> cells/test. <b>Immunohistochemistry on Frozen Sections or Cell Smears:</b> Working dilution 1/25-1/50. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Specific for Human beta 2-Microglobulin (MW 12 kDa). Recognizes the HLA-beta 2-Microglobulin complex, free or associated with the membrane. Does <u>not</u> react with other species. The exact epitope for the antibody has not been mapped.

**Storage:**

Prior to reconstitution store at 2-8°C.  
Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Addition of 0.09% (w/v) Sodium Azide is recommended for storage up to one month at 2-8°C.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:**

1. Liabeuf A, le Borgne de Kaouel C, Kourilsky FM, Malissen B, Manuel Y, Sanderson AR. An antigenic determinant of human beta 2-microglobulin masked by the association with HLA heavy chains at the cell surface: analysis using monoclonal antibodies. *J Immunol.* 1981 Oct;127(4):1542-8. PubMed PMID: 6168695.