

F2-456-C100

Monoclonal Antibody to beta2-microglobulin F(ab')₂ fragment (0.1 mg)

Clone:	B2M-02
Isotype:	Mouse IgG1
Specificity:	The antibody B2M-02 reacts with beta2-microglobulin (beta2M) associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble beta2-microglobulin. Beta2M is a 12 kDa Ig like glycoprotein expressed on lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells and epithelial cells. It is absent on erythrocytes.
Immunogen:	Purified isolated human beta2-microglobulin.
Species Reactivity:	Human, Porcine
Preparation:	F(ab') ₂ fragments were prepared by pepsin digestion of the IgG followed by protein-A affinity chromatography to remove the remaining intact IgG or Fc fragments.
Purity:	> 95% (by SDS-PAGE)
Concentration:	1 mg/ml
Storage Buffer:	Azide free phosphate buffered saline (PBS), preserved by filter sterilization, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Expiration:	See vial label
Lot Number:	See vial label
Background:	Beta2-microglobulin non-covalently associates with the 44 kDa alpha chain to forms the HLA Class I antigen complex. Human beta2-microglobulin associated with HLA Class I antigens is expressed on many types of cells including lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells, and epithelial cells. It is absent on erythrocytes.
References:	*Hilgert I, Horejsi V, Kristofova H.: The use of murine monoclonal antibody B2M-01 for detection and purification of human beta 2-microglobulin. Folia Biol (Praha). 1984;30(6):369-76. *Drbal K, Angelisova P, Hilgert I, Cerny J, Novak P, Horejsi V.: A proteolytically truncated form of free CD18, the common chain of leukocyte integrins, as a novel marker of activated myeloid cells. Blood. 2001 Sep 1;98(5):1561-6.

For laboratory research only, not for drug, diagnostic or other use.