



11-456-C025

Monoclonal Antibody to beta2-microglobulin Purified Antibody (0.025 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
Application:	Flow Cytometry Recommended dilution: 1 µg/ml Positive control: PBL cell line Negative control: DAUDI human lymphoma cell line, erythrocytes Western Blotting Recommended dilution: 2-4 µg/ml Positive control: U937 human lymphoma cell line Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing/reducing Laemmli SDS-PAGE sample buffer. Application note: Both reducing and non-reducing conditions. Immunohistochemistry (paraffin sections) Recommended dilution: 5 µg/ml Positive tissue: liver ELISA Application note: Working dilution should be determined by investigator.
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from ascites by protein-A affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, 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.

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



Antibodies

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.

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