Monoclonal Antibody to beta2-Microglobulin
Purified Antibody (0.025 mg)

Clone: B2M-01
Isotype: Mouse IgG2a
Specificity: The antibody B2M-01 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.

Regulatory Status: RUO
Immunogen: Purified human beta2-microglobulin
Species Reactivity: Human
Negative Species: Mouse, Bovine, Canine (Dog), Rabbit, Chicken
Application: Flow Cytometry
Recommended dilution: 1 µg/ml
Positive control: Peripheral blood lymphocytes
Negative control: DAUDI human Burkitt lymphoma cell line, erythrocytes
Immunoprecipitation
Application note: The B2M-01 coprecipitates beta2-microglobulin (12 kDa) and HLA antigens (45 kDa) from the lysates of human lymphoid cells.
Western Blotting
Recommended dilution: 2-4 µg/ml
Positive control: U937 human histiocytic lymphoma cell line
RAJI human Burkitt lymphoma cell line
Negative control: EL4 mouse lymphoblastic 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: 10 µg/ml
Positive tissue: kidney glomeruli
Immunocytochemistry
ELISA
Application note: Working dilution should be determined by investigator.
RIA
Application note: Use at an assay dependent concentration. The dissociation constant of the antibody soluble beta2-microglobulin is $1.5 \times 10^{-8}$ mol/l as determined by competitive RIA.
Purity: > 95% (by SDS-PAGE)
Purification: Purified by precipitation methods
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

For laboratory research only, not for drug, diagnostic or other use.
EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.

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:

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO’s term and conditions which are available at www.exbio.cz.