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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

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Purified Mouse Anti-beta2-microglobulin Monoclonal Antibody

CLX243AP

Lot:

Clone: B2M-02

Isotype: Mouse IgG1

Specificity: The antibody B2M-02 reacts with beta2-microglobulin (b2M) associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble beta2-microglobulin. b2M 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 mg/ml
Positive control: PBL cell line
Negative control: DAUDI human lymphoma cell line, erythrocytes

Western Blotting
Recommended dilution: 2-4 mg/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.

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

Continued...

For more information or to place an order please contact...

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or visit our website for a list of our international distributors including contact information

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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.

Background: b2M non-covalently associates with the 44 kDa alpha chain to form 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.

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