β2-Microglobulin (human), (native)

High purity, native protein used as a target diagnostic marker for cancer or renal failure.

Purified native human β2-Microglobulin protein.

Major Histocompatibility Complexes (MHC) are expressed on the cell surface of nucleated cells. MHC-1 is composed of two chains – membrane-bound alpha chain and non-covalently linked Beta-2 Microglobulin (B2M). The complex binds peptides produced from cellular proteolytic activity and presents them on the cell surface for evaluation by Cytotoxic T cells. B2M is necessary for MHC-1 presentation and stability of the peptide binding groove formed by the alpha-2 and alpha-3 domains.
B2M is a diagnostic marker for some cancers and for kidney disease. It can be readily leaked into serum due to the lack of a covalent membrane anchor. Serum B2M is elevated in some inflammatory and lymphoproliferative disorders due to increased rate of synthesis or cell turnover. B2M is readily taken up by the glomerular membrane and is reabsorbed by the proximal tube. The relative levels and ratios of B2M in blood and urine can distinguish cellular activation vs renal disorders, and whether a renal problem is in the glomeruli or renal tubes.

Citations: 3 View Online »

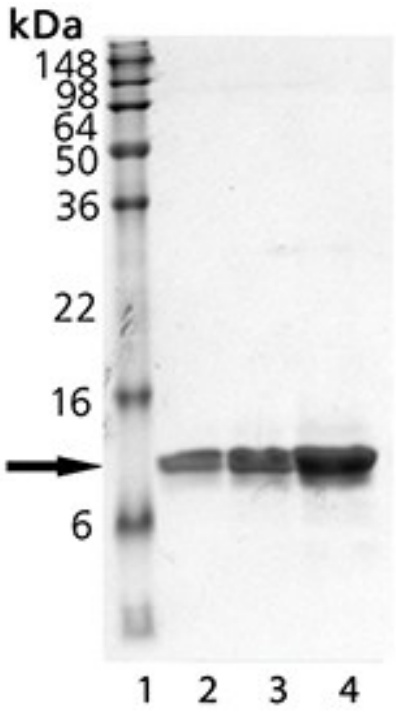
Ordering Information

Order Online »

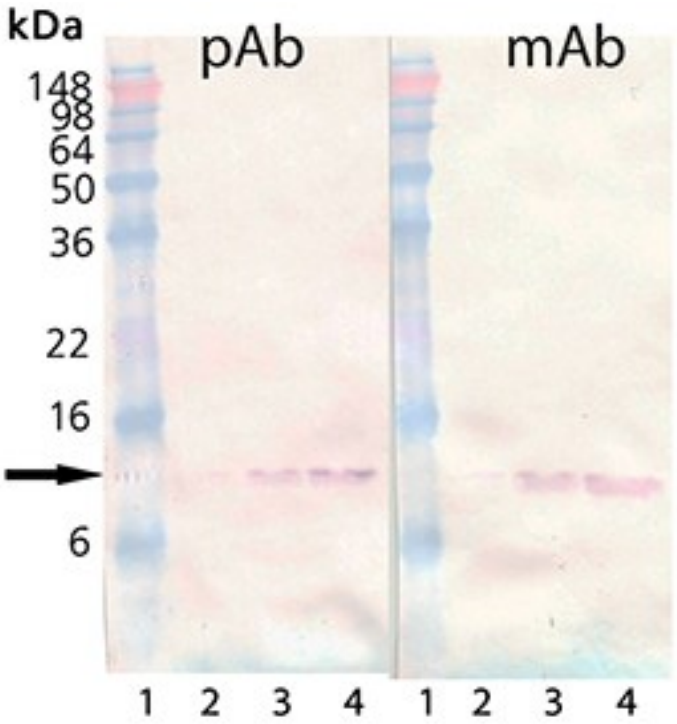
ALX-522-461-0100	100µg

Manuals, SDS & CofA

View Online »



SDS-PAGE Analysis of β-2 Microglobulin. Lane 1: MW Marker, Lane 2: 1 µg, Lane 3: 2 µg, Lane 4: 5 µg.



Western Blot analysis of β-2 Microglobulin. Lane 1: MW marker, Lane 2: 100 ng, Lane 2, 200 ng, Lane 4, 500 ng. Probed with polyclonal (left) and monoclonal (right) antibodies specific for β-2 Microglobulin.

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Short Term Storage	+4°C
Long Term Storage	+4°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Formulation	Liquid. In PBS, pH 7.2, containing 150mM sodium chloride, 1mM EDTA sodium salt and 0.05% sodium azide.
MW	~12kDa
Purity	≥95% (SDS-PAGE)
Source	Purified from urine of patients with chronic renal tubular proteinuria.
UniProt ID	P61769

Last modified: May 29, 2024

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.