

Datasheet for ABIN93900

anti-beta-2 Microglobulin antibody

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Overview

Quantity:	0.1 mg
Target:	beta-2 Microglobulin (B2M)
Reactivity:	Human, Pig
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This beta-2 Microglobulin antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified isolated human beta2-microglobulin.
Clone:	B2M-02
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody B2M-02 reacts with beta2-microglobulin (beta2M), an extracellular antigen associated with cell-surface MHC Class I molecules and other membrane antigens, as well as it reacts 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.
Cross-Reactivity (Details):	Human, Porcine
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	beta-2 Microglobulin (B2M)
Alternative Name:	beta2-Microglobulin (B2M Products)
Background:	Beta-2-microglobulin,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.,B2M
Gene ID:	567
UniProt:	P61769
Pathways:	TCR Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Application Notes:	Immunohistochemistry (paraffin sections): Heat-mediated antigen retrieval, recommended dilution: 5 µg/mL, positive tissue: liver. Western blotting: Recommended dilution: 2 µg/mL, non-reducing conditions preferred. Flow cytometry: Recommended dilution: 1 µg/mL, positive control: PBL cell line, negative control: DAUDI human lymphoma cell line, erythrocytes. ELISA: Working dilution should be determined by investigator.
Restrictions:	For Research Use only

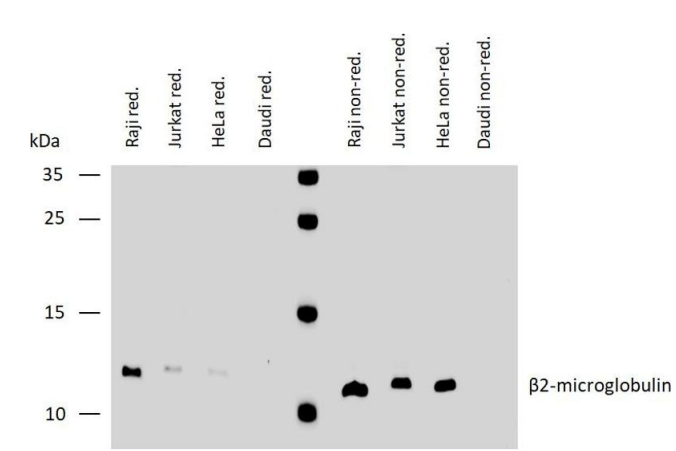
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Product cited in: Drbal, Angelisová, Hilgert, Cerný, Novák, Horejsí: "A proteolytically truncated form of free CD18, the common chain of leukocyte integrins, as a novel marker of activated myeloid cells." in: **Blood**, Vol. 98, Issue 5, pp. 1561-6, (2001) ([PubMed](#)).

Hilgert, Horejsí, Kristofová: "The use of murine monoclonal antibody B2M-01 for detection and purification of human beta 2-microglobulin." in: **Folia biologica**, Vol. 30, Issue 6, pp. 369-76, (1985) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blotting analysis of human β 2-microglobulin using mouse monoclonal antibody B2M-02 on lysates of various cell lines under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 μ g/mL of mouse monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. β 2-microglobulin was detected around 12 kDa.

Flow Cytometry

Image 2. Surface staining of human peripheral blood cells by mouse monoclonal anti-beta2-microglobulin antibody B2M-02 .

