

**Mouse Anti-Beta-2-Microglobulin [B2M/961]: MC0622, MC0622RTU7**

**Intended Use:** For Research Use Only

**Description:** Component of the class I major histocompatibility complex (MHC). Involved in the presentation of peptide antigens to the immune system. Defects in B2M are the cause of hypercatabolic hypoproteinemia (HYCATHYP) [MIM:241600]. Affected individuals show marked reduction in serum concentrations of immunoglobulin and albumin, probably due to rapid degradation. Note=Beta-2-microglobulin may adopt the fibrillar configuration of amyloid in certain pathologic states. The capacity to assemble into amyloid fibrils is concentration dependent. Persistently high beta(2)-microglobulin serum levels lead to amyloidosis in patients on long-term hemodialysis.

**Specifications:**

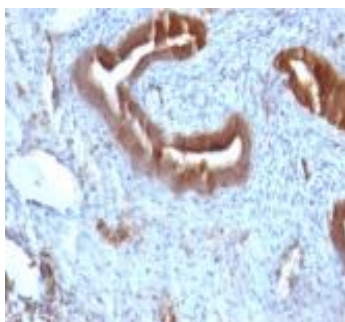
Clone: B2M/961  
 Source: Mouse  
 Isotype: IgG2b/k  
 Reactivity: Human  
 Localization: Membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., IF  
 Package:

Description	Catalog No.	Size
Beta-2-Microglobulin Concentrated	MC0622	1 ml
Beta-2-Microglobulin Prediluted	MC0622RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Normal skin  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human Endometrial Carcinoma stained with Beta-2-Microglobulin using DAB

**References:**

1. High sensitivity isoelectric focusing to establish a signaling biomarker for the diagnosis of human colorectal cancer. Padhan N, et al. BMC Cancer 16:683, 2016.
2. Aquaporin-Mediated Water and Hydrogen Peroxide Transport Is Involved in Normal Human Spermatozoa Functioning. Laforenza U, et al. Int J Mol Sci 18:N/A, 2016.
3. The human complement inhibitor Sushi Domain-Containing Protein 4 (SUSD4) expression in tumor cells and infiltrating T cells is associated with better prognosis of breast cancer patients. Englund E, et al. BMC Cancer 15:737, 2015.

Doc. 100-MC0622  
Rev. A