# 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 ≤ 0.09% sodium azide (NaN3) |
| Storage: | Store at 2°- 8°C |
| Applications: | IHC, Flow Cyt., IF |

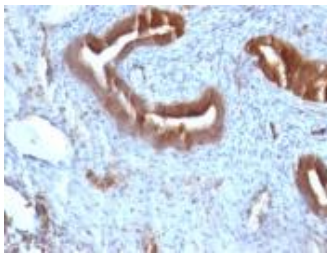
Package:

| 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: | Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using 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.



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