

**Rabbit Anti-Beta-2-Microglobulin [MD24R]: RM0327, RM0327RTU7**

**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:**

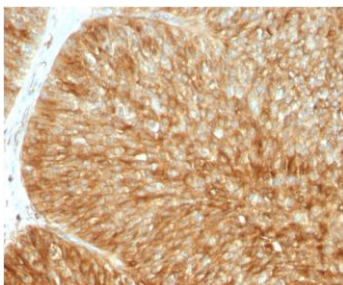
Clone: MD24R  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human  
Immunogen: Recombinant full-length human B2M protein  
Localization: Secreted, membrane  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, Flow Cyt., WB  
Package:

Description	Catalog No.	Size
Beta-2-Microglobulin Concentrated	RM0327	1 ml
Beta-2-Microglobulin Prediluted	RM0327RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: B-cell lymphoma / amyloid  
Concentrated Dilution: 50-200  
Pretreatment: Tris EDTA pH9.0, 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 bladder carcinoma stained with anti-  $\beta$ 2-microglobulin using DAB

**References:**

1. Huh-7: a human "hemochromatotic" cell line. Vecchi C, et al. Hepatology 51:654-9, 2010.
2. GPRC6A null mice exhibit osteopenia, feminization and metabolic syndrome. Pi M, et al. PLoS ONE 3:e3858, 2008.
3. Electrophoretic Separation of Urine Proteins of Healthy Dogs and Dogs with Nephropathy and Detection of Some Urine Proteins of Dogs Using Immunoblotting. Yalcin, A and Cetin, M. Revue Med. Vet. 155:104-112, 2004.

Doc. 100-RM0327  
Rev. B