

**Anti-BETA-2-MICROGLOBULIN (Human Urine) (RABBIT) Antibody Biotin Conjugated**  
**Beta-2-Microglobulin Antibody Biotin Conjugated**  
**Catalog # ASR4550**

**Specification**

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**Anti-BETA-2-MICROGLOBULIN (Human Urine) (RABBIT) Antibody Biotin Conjugated -  
Product Information**

Host	Rabbit
Conjugate	Biotin
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-beta-2-Microglobulin Biotin antibody has been tested by dot blot and is suitable for western blotting to detect a single band of the expected apparent molecular weight and for ELISA. Researchers should determine optimal titers for applications that are not stated below.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Anti-Beta-2-Microglobulin Antibody was produced by repeated immunizations with beta-2-Microglobulin protein isolated from human urine.
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide

**Anti-BETA-2-MICROGLOBULIN (Human Urine) (RABBIT) Antibody Biotin Conjugated -  
Additional Information**

**Gene ID 567**

**Other Names**  
567

**Purity**

Anti-beta-2-Microglobulin antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Rabbit Serum as well as purified and partially purified b2-Microglobulin [Human Urine]. Cross reactivity against b2-Microglobulin from other sources may occur but has not been specifically determined.

**Storage Condition**

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-BETA-2-MICROGLOBULIN (Human Urine) (RABBIT) Antibody Biotin Conjugated - Protein Information**

Name B2M ([HGNC:914](#))

**Function**

Component of the class I major histocompatibility complex (MHC). Involved in the presentation of peptide antigens to the immune system. Exogenously applied M.tuberculosis EsxA or EsxA-EsxB (or EsxA expressed in host) binds B2M and decreases its export to the cell surface (total protein levels do not change), probably leading to defects in class I antigen presentation (PubMed:<a href="http://www.uniprot.org/citations/25356553" target="\_blank">25356553</a>).

**Cellular Location**

Secreted. Cell surface. Note=Detected in serum and urine (PubMed:1336137, PubMed:7554280). {ECO:0000269|PubMed:7554280, ECO:0000269|Ref.6}

**Anti-BETA-2-MICROGLOBULIN (Human Urine) (RABBIT) Antibody Biotin Conjugated - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-BETA-2-MICROGLOBULIN (Human Urine) (RABBIT) Antibody Biotin Conjugated - Images****Anti-BETA-2-MICROGLOBULIN (Human Urine) (RABBIT) Antibody Biotin Conjugated - Background**

Anti-beta-2-Microglobulin Antibody detects beta-2-Microglobulin. Beta-2-microglobulin is a component of the class I major histocompatibility complex (MHC), which are present on all nucleated cells (excludes red blood cells). It is involved in the presentation of peptide antigens to the immune system. Beta-2-microglobulin associates not only with the alpha chain of MHC class I molecules, but also with class I-like molecules such as CD1 and Qa. Defects in B2M are the cause of hypercatabolic hypoproteinemia. Anti-beta-2-Microglobulin Antibody is ideal for investigators involved in Cell Signaling, Immunology and Cell Biology research.