

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone BBM.1]
Catalog # AH12133

Specification

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody - With BSA and Azide -
Product Information

Application	,13,3,4,
Primary Accession	P61769
Other Accession	567 , 534255
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b, kappa
Calculated MW	12kDa KDa

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Additional Information

Gene ID 567

Other Names

Beta-2-microglobulin, Beta-2-microglobulin form pI 5.3, B2M

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody - With BSA and Azide -
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:25356553).

Cellular Location

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

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody - With BSA and Azide - 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](#)

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody - With BSA and Azide - Images

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody - With BSA and Azide - Background

Recognizes a protein of 12kDa, identified as microglobulin. Major histocompatibility complex (MHC) class 1 molecules bind to antigens for presentation on the surface of cells. The proteasome is responsible for producing these antigens from the components of foreign pathogens. MHC class 1 molecules consist of an α heavy chain that contains three subdomains ($\alpha 1$, $\alpha 2$, $\alpha 3$) and a non-covalent associating light chain, known as β -2-Microglobulin. β -2-Microglobulin associates with the $\alpha 3$ subdomain of the α heavy chain and forms an immunoglobulin domain-like structure that mediates proper folding and expression of MHC class 1 molecules. The $\alpha 1$ and $\alpha 2$ domains of the α heavy chain form the peptide antigen-binding cleft. Mutations in the β -2-Microglobulin gene can enhance the progression of malignant melanoma phenotypes.

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody - With BSA and Azide - References

Brodsky F et al. 1979. Immunol. Rev. 47:3-61. | Brodsky F et al. 1979. Eur. J. Immunol. 9:536-45. | Parham P et al. 1983. J. Biol. Chem. 258(10):6179-86