

**B2M Antibody**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM2052b****Specification**

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**B2M Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">P61769</a>
Other Accession	<a href="#">NP_004039.1</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Antigen Region	10-39

**B2M Antibody - Additional Information****Gene ID** 567**Other Names**

Beta-2-microglobulin, Beta-2-microglobulin form pI 53, B2M

**Target/Specificity**

This B2M antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 10-39 amino acids from human B2M.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

B2M Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**B2M Antibody - 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

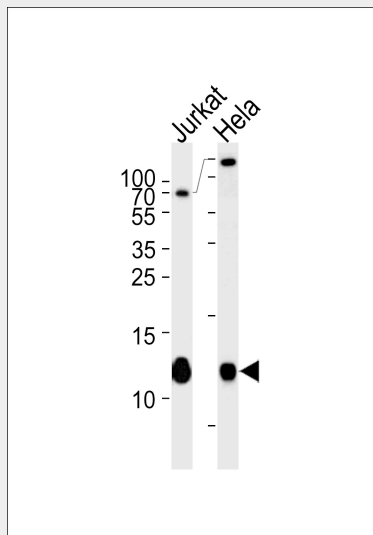
Secreted. Cell surface. Note=Detected in serum and urine (PubMed:1336137, PubMed:7554280).  
{ECO:0000269|PubMed:7554280, ECO:0000269|Ref.6}

### B2M Antibody - 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](#)

### B2M Antibody - Images



B2M Antibody (N-term) (Cat.# AM2052b) western blot analysis in Jurkat, HeLa cell line lysates (35µg/lane). This demonstrates the B2M antibody detected the B2M protein (arrow).

### B2M Antibody - Background

This gene encodes a serum protein found in association with the major histocompatibility complex (MHC) class I heavy chain on the surface of nearly all nucleated cells. The protein has a predominantly beta-pleated sheet structure that can form amyloid fibrils in some pathological conditions. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia.

### B2M Antibody - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Rennella, E., et al. J. Mol. Biol. 401(2):286-297(2010)

Debelouchina, G.T., et al. J. Am. Chem. Soc. 132(30):10414-10423(2010)  
Mumtaz, A., et al. Saudi J Kidney Dis Transpl 21(4):701-706(2010)  
Guo, H.C., et al. Nature 360(6402):364-366(1992)