

**B2M Antibody**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AW5057****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
Calculated MW	H=14 KDa
Isotype	IgG1
Antigen Source	HUMAN

**B2M Antibody - Additional Information****Gene ID** 567**Antigen Region**  
10-39**Other Names**  
B2M; Beta-2-microglobulin; Beta-2-microglobulin form pI 5.3**Dilution**  
WB~~1:1000**Target/Specificity**  
This B2M antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 10-39 amino acids from human B2M.**Format**  
Purified monoclonal 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:<a href="http://www.uniprot.org/citations/25356553" target="\_blank">25356553</a>).

### Cellular Location

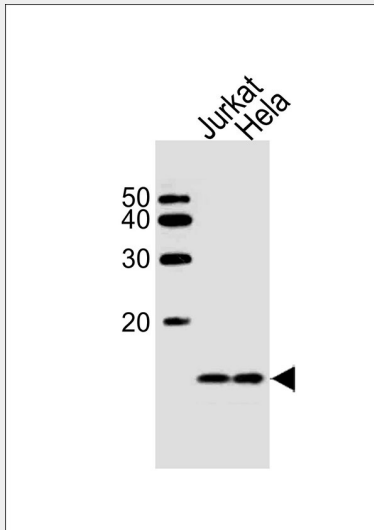
Secreted. Cell surface. Note=Detected in serum and urine (PubMed:1336137, PubMed:7554280). {ECO:0000269|PubMed:7554280, ECO:0000269|Ref.6}

### 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



Western blot analysis of lysates from Jurkat, HeLa cell line (from left to right), using B2M Antibody (N-term)(Cat. #AW5057). AW5057 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:5,000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

### 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)