B2M Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	B2M, Polyclonal Antibody
Full Product Name	B2M (C-Term Y86) Rabbit pAb
Product Gene Name	anti-B2M antibody
Product Synonym Names	Beta-2-microglobulin; Beta-2-microglobulin form pI 53; B2M
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB19404
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	gene 241600
3D Structure	ModBase 3D Structure for P61769
Immunogen	This B2M antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 71-98 amino acids from the C-terminal region of human B2M.
Cellular Localization	Amyloid, MHC I, Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-B2M antibody	Western Blot (WB)
Application Notes for anti-B2M antibody	WB: 1:1000
Related Product Information for anti-B2M antibody	MBS8553872 is an antibody targeting B2M. Also known as B2M (C-Term Y86) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-B2M antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B2M. It may not necessarily be applicable to this product.

NCBI GI #	48428791
NCBI GeneID	567
NCBI Accession #	P61769.1
UniProt Primary Accession #	P61769
UniProt Related Accession #	P61769

NCBI Official Full Name	Beta-2-microglobulin
NCBI Official Synonym Full Names	beta-2-microglobulin
NCBI Official Symbol	B2M
NCBI Official Synonym Symbols	IMD43
UniProt Protein Name	Beta-2-microglobulin
Protein Family	Beta-2-microglobulin
UniProt Gene Name	B2M
UniProt Entry Name	B2MG_HUMAN
NCBI Protein Information	beta-2-microglobulin
NCBI Summary for B2M	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. The encoded antimicrobial protein displays antibacterial activity in amniotic fluid. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia.[provided by RefSeq, Aug 2014]
UniProt Comments for B2M	B2M: Component of the class I major histocompatibility complex (MHC). Involved in the presentation of peptide antigens to the immune system. Heterodimer of an alpha chain and a beta chain. Beta-2- microglobulin is the beta-chain of major histocompatibility complex class I molecules. Polymers of beta 2-microglobulin can be found in tissues from patients on long-term hemodialysis. Belongs to the beta-2-microglobulin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 15q21.1 Cellular Component: Golgi membrane; Golgi apparatus; extracellular space; phagocytic vesicle membrane; focal adhesion; membrane; early endosome membrane; endoplasmic reticulum lumen; cytoplasm; plasma membrane; extracellular region; MHC class I protein complex; external side of plasma membrane Molecular Function: identical protein binding; protein binding Biological Process: response to drug; regulation of immune response; viral reproduction; positive regulation of T cell mediated cytotoxicity; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-independent; cytokine and chemokine mediated signaling pathway; T cell differentiation in the thymus; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; regulation of defense response to virus by virus; retinal homeostasis; iron ion homeostasis; antigen processing and presentation of peptide antigen via MHC class I; response to cadmium ion; response to molecule of bacterial origin; antigen processing and presentation of exogenous peptide antigen via MHC class I; innate immune response; protein refolding; antigen processing and presentation of exogenous protein antigen via MHC class Ib, TAP-dependent Disease: Hypoproteinemia, Hypercatabolic
Research Articles on B2M	**1.** Immunoglobulin light-chain amyloidosis (AL amyloidosis) patients with a higher beta2-microglobulin (beta2MG) levels experienced significantly more thromboembolic events compared with those with a lower value. Most thromboembolic events occurred within the first year after the AL amyloidosis diagnosis.
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