B2-Microglobulin (B2M) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	b2-Microglobulin (B2M), Polyclonal Antibody
Full Product Name	b2-Microglobulin, CT (Y86) (B2M, Beta-2-microglobulin) (MaxLight 490)
Product Gene Name	anti-B2M antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human B2M.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	Predicted: 13 kDa Observed: 12 kDa
OMIM	gene 241600
3D Structure	ModBase 3D Structure for P61769
Immunogen	Synthetic peptide corresponding to a portion of amino acids within aa71-98 from the C-terminal region of human B2M, conjugated to KLH (P61769).
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-B2M antibody	Antibodies; Serum Proteins
Applications Tested/Suitable for anti-B2M antibody	Western Blot (WB)
Application Notes for anti-B2M antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-B2M antibody	MBS6488125 is an antibody targeting B2M. Also known as b2-Microglobulin, CT (Y86) (B2M, Beta-2-microglobulin) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-B2M antibody	1. Sakata, M., J. Mol. Biol. 382(5), 1242-1255 (2008). 2. Huang, W.C., Clin. Cancer Res. 14(17), 5341-5347 (2008). 3. Gattoni-Celli, S., Cancer Res. 52(5), 1201-1204 (1992).
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 #	4757826
NCBI GeneID	567
NCBI Accession #	NP_004039
UniProt Primary Accession #	P61769
UniProt Secondary Accession #	P01884; Q540F8; Q6IAT8; Q9UCK0; Q9UD48; Q9UDF4
UniProt Related Accession #	P61769
GenBank Nucleotide #	NM_004048.2
NCBI Official Full Name	beta-2-microglobulin
NCBI Official Synonym Full Names	beta-2-microglobulin
NCBI Official Symbol	B2M
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; beta-2-microglobin; beta chain of MHC class I molecules
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.** Beta-2 microglobulin levels are increased in about 30 percent of renal cell carcinoma patients, above all in subjects with metastatic disease.

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