Beta2-Microglobulin (B2M) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	beta2-microglobulin (B2M), Monoclonal Antibody
Full Product Name	Anti-beta2-microglobulin Mouse mAb
Product Gene Name	anti-B2M antibody
Product Synonym Names	B2MG_HUMAN; Beta2microglobin; Beta2microglobulin; Beta2microglobulinprecursor; Betachainofmhcclass1proteins; BetachainofMHCclassImolecules; Beta-2-microglobulinformpI5.3; CDABP0092; Hdcma22p.
Clonality	Monoclonal
Isotype	lgG2b
Clone Number	4C3-G4
Host	Mouse
Species Reactivity	Human
Form/Format	Purified mouse monoclonal antibjody in PBS (pH 7.4) containing 0.03% Proclin300.
Purity/Purification	Affinity purified
Preparation and Storage	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
Molecular Weight	14kDa
OMIM	105200
3D Structure	ModBase 3D Structure for P61769
Immunogen	Purified recombinant human beta2-microglobulin protein expressed in E Coli.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-B2M antibody	ELISA (EIA)
Related Product Information for anti-B2M antibody	Component of the class I major histocompatibility complex (MHC). Involved in the presentation of peptide antigens to the immune system.
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.
Searchable Terms for B2M purchase	MBS8533171 is an antibody targeting B2M. Also known as Anti-beta2-microglobulin Mouse mAb. Reactive in Human. Host: Mouse.

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_004039.1
UniProt Primary Accession #	P61769

UniProt Secondary Accession #	P01884; Q540F8; Q6IAT8; Q9UCK0; Q9UD48; Q9UDF4
UniProt Related Accession #	P61769
GenBank Nucleotide #	NM_004048
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
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	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).
Research Articles on B2M	**1.** Study characterized the salt-induced oligomers of the acid-unfolded state of beta2m using an array of biophysical tools including steady-state and time-resolved fluorescence, circular dichroism, dynamic light scattering, and atomic force microscopy imaging. Results revealed the distinct pathways by which beta2m assembles into oligomers and fibrils.
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