Beta2microglobulin (b2M) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Beta2Microglobulin (b2M), Monoclonal Antibody
Full Product Name	APC_Cy7 Linked Monoclonal Antibody to Beta2Microglobulin (b2M)
Product Gene Name	anti-b2M antibody
Product Synonym Names	b2M/Beta2Microglobulin; BMG; B2MG
Clonality	Monoclonal
Clone Number	A7
Host	Mouse
Species Reactivity	Mouse, Rat
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	>=0.1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against b2M. It has been selected for its ability to recognize b2M in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: b2M Clone #A7 (MBS2138472) APC-CY7 Conjugated Antibody: b2M Clone #A7 (MBS2129073)
Molecular Weight	13,779 Da
3D Structure	ModBase 3D Structure for P01887
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Gln22~Met119
Conjugation	APC Cy7
Product Categories/Family for anti-b2M antibody	Infection immunity; Kidney biomarker; Primary, APC/Cy11430 labeled
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-b2M antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-b2M antibody	WB: 0.52ug/mL IHC: 520ug/mL ICC: 520ug/mL
Related Product Information for anti-b2M antibody	MBS2129073 is an antibody targeting b2M. Also known as APC_Cy7 Linked Monoclonal Antibody to Beta2Microglobulin (b2M). Reactive in Mouse, Rat. Host: Mouse.

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 #	31981890
NCBI GeneID	12010
NCBI Accession #	NP_033865.2
UniProt Primary Accession #	P01887
UniProt Secondary Accession #	Q91XJ8
UniProt Related Accession #	P01887
GenBank Nucleotide #	NM_009735.3
NCBI Official Full Name	beta-2-microglobulin
NCBI Official Synonym Full Names	beta-2 microglobulin
NCBI Official Symbol	B2m
NCBI Official Synonym Symbols	Ly-m11; beta2m; beta2-m
UniProt Protein Name	Beta-2-microglobulin
Protein Family	Beta-2-microglobulin
UniProt Gene Name	B2m
NCBI Protein Information	beta-2-microglobulin
UniProt Comments for b2M	Component of the class I major histocompatibility complex (MHC). Involved in the presentation of peptide antigens to the immune system.
Research Articles on b2M	**1.** The results show that, although other factors influence the fibril growth kinetics, a striking difference in the solubility of the proteins is a key determinant of the different amyloidogenicity of human B2M and mouse B2M.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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