

Beta-2 Microglobulin Recombinant Antibody | B2M recombinant antibody

Anti-Beta-2 Microglobulin [BBM.1]

CATALOG #	REACTIVITY	APPLICATIONS
AAA72020	Human	Immunohistochemistry, Western Blot, Immunofluorescence

PRODUCT SYNONYMS

Beta-2 Microglobulin; Monoclonal Recombinant Antibody; Anti-Beta-2 Microglobulin [BBM.1]; Beta-2-microglobulin; CDABP0092; HDCMA22P; BBM1; BBM.1; B2M recombinant antibody

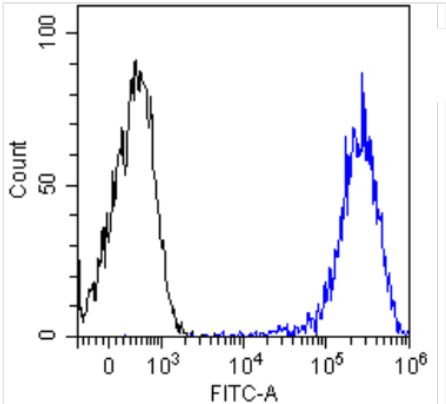
PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG kappa
Clone Number	BBM.1
Specificity	Binds human beta-2-microglobulin, a component of MHC class I molecules, which are present on all nucleated cells (excludes red blood cells) and involved in the presentation of peptide antigens to the immune system.
Purity/Purification	Protein A Affinity Purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Sequence Length	119
Applicable Applications for B2M recombinant antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence)
Antibody Type	Recombinant Antibody
Antibody Species	Rabbit
Original Species Name	Mouse
Immunogen	Molt 4, a human T cell line.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG2b format, for improved compatibility with existing reagents, assays and techniques.
Buffer Composition	PBS only with 0.02% Proclin 300.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



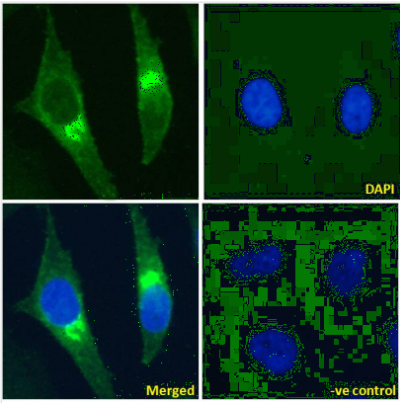
WB (Western Blot)

Western Blot using anti-Beta-2 microglobulin antibody BBM.1 HeLa cell lysate (35ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of BBM.1 (AAA72020) at 0.03 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for Beta-2 microglobulin is 13.7 kDa. AAA72020 successfully detected human Beta-2 microglobulin in both HeLa cell extract and human duodenum samples.



FCM/FACS (Flow Cytometry)

Flow-cytometry using the anti-Beta-2 microglobulin antibody BBM.1 HeLa cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of BBM.1 (AAA72020, blue line) at a concentration of 10 ug/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody (129936) at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.



IF (Immunofluorescence)

Immunofluorescence staining of fixed HeLa cells with anti-Beta-2 microglobulin antibody BBM.1 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton stained with the chimeric rabbit IgG version of BBM.1 (AAA72020) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72020, DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for B2M recombinant antibody	Recombinant monoclonal antibody to Beta-2 microglobulin. Manufactured using the recombinant platform with variable regions (i.e. specificity) from the hybridoma BBM.1.
Product Categories/Family for B2M recombinant antibody	Immunology; Cancer
References	Brodsky FM, Bodmer WF, Parham P. Characterization of a monoclonal anti-beta-2-microglobulin antibody and its use in the genetic and biochemical analysis of major histocompatibility antigens. Eur J Immunol. 1979 Jul;9(7):536-45. PMID:91522 Original Published Journal: Eur J Immunol. 1979 Jul;9(7):536-45. Original Published PMID: 14675065 Publication Note: Describes the generation of BBM.1 and characterization of its specific binding to bet 2-microglobulin.

NCBI AND UNIPROT INFORMATION

NCBI GI #	48428791
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NCBI GeneID	567
UniProt 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
NCBI Protein Information	beta-2-microglobulin
UniProt Protein Name	Beta-2-microglobulin
UniProt Gene Name	B2M
UniProt Entry Name	B2MG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/beta-2-microglobulin-recombinant-antibody-clone-bbm-1-immunohistochemistry-western-blot-immunofluorescence-elisa/72020>