

Human Beta-2-Microglobulin (b2M) ELISA Kit | b2M elisa kit

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CATALOG #
AAA138900

REACTIVITY
Human

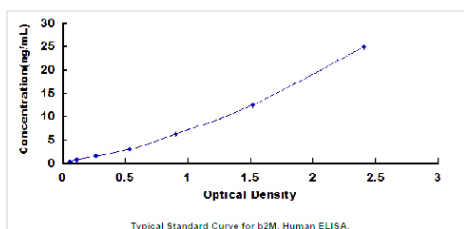
PRODUCT SYNONYMS

Beta-2-Microglobulin (b2M); Human Beta-2-Microglobulin (b2M) ELISA Kit; BMG; B2MG; b2M elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of b2M. No significant cross-reactivity or interference between b2M and analogues was observed.
Sequence Length	119
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Urine and other biological fluids
Detection Range	0.39-25ng/mL
Sensitivity	0.16ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level b2M were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level b2M were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for b2M elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of b2M in human serum, plasma, urine and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to b2M. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to b2M. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain b2M, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of b2M in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for b2M elisa kit	Infection immunity; Kidney biomarker

NCBI AND UNIPROT INFORMATION

NCBI GI #	4757826
NCBI GeneID	567
NCBI Accession #	NP_004039.1
NCBI GenBank Nucleotide #	NM_004048.2
UniProt Accession #	P61769; P01884; Q540F8; Q6IAT8; Q9UCK0; Q9UD48; Q9UDF4
Molecular Weight	13,715 Da
NCBI Official Full Name	beta-2-microglobulin
NCBI Official Synonym Full Names	beta-2-microglobulin
NCBI Official Symbol	B2M
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://www.aaabiotech.com/human-elisa-kits/beta-2-microglobulin-b2m/138900>