

Rat Beta-2-Microglobulin ELISA Kit | BMG/beta2-MG elisa kit

Rat Beta-2-Microglobulin ELISA Kit

CATALOG #
AAA102137

REACTIVITY
Rat

PRODUCT SYNONYMS

Beta-2-Microglobulin; Rat Beta-2-Microglobulin ELISA Kit; BMG/b2-MG (Beta-2-Microglobulin) ; BMG/beta2-MG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of BMG/beta2-MG . No significant cross-reactivity or interference between BMG/ beta2-MG and analogues was observed.
Sequence Length	119
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	1.563-100ng/ml
Sensitivity	0.938ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level BMG/beta2-MG were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level BMG/beta2-MG were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a BMG/ β 2-MG ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

X	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.018	0.263	0.515	0.831	1.301	2.109	2.474	2.69

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMG/beta2-MG elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-BMG/beta 2-MG antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- BMG/beta2- MG antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the BMG/beta2-MG amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of BMG/beta2-MG can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4757826
NCBI GeneID	567
NCBI Accession #	NP_004039.1
NCBI GenBank Nucleotide #	NM_004048.2
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 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/bmg-beta2-mg-rat-elisa-kits/beta-2-microglobulin/102137>