

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

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CATALOG #
AAA137425

REACTIVITY
Rat

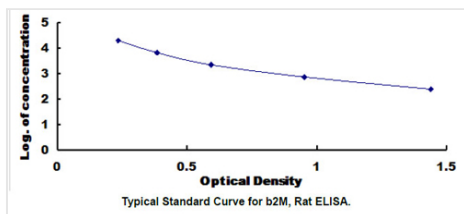
PRODUCT SYNONYMS

Beta-2-Microglobulin (b2M); Rat Beta-2-Microglobulin (b2M) ELISA Kit; b2M elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Beta-2-Microglobulin (b2M). No significant cross-reactivity or interference between Beta-2-Microglobulin (b2M) and analogues was observed.
Sequence Length	119
Samples	Serum, plasma, urine and other biological fluids
Assay Type	Competitive
Detection Range	246.91-20000pg/mL. The standard curve concentrations used for the ELISA's were 20000pg/mL, 6666.67pg/mL, 2222.22pg/mL, 740.74pg/mL, 246.91pg/mL.
Sensitivity	Typically less than 91.2pg/mL.
Organism Species	Rattus norvegicus (Rat)
ELISA Type	Competitive
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Beta-2-Microglobulin (b2M) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Beta-2-Microglobulin (b2M) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: $CV < 10\%$ 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	This assay employs the competitive inhibition enzyme immunoassay technique. An antibody specific for Beta-2-Microglobulin (b2M) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between Horseradish Peroxidase (HRP) labeled Beta-2-Microglobulin (b2M) and unlabeled Beta-2-Microglobulin (b2M) (Standards or samples) with the pre-coated antibody specific for Beta-2-Microglobulin (b2M). After incubation the unbound conjugate is washed off. The amount of bound HRP conjugate is reverse proportional to the concentration of Beta-2-Microglobulin (b2M) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Beta-2-Microglobulin (b2M) in the sample.
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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; beta-2-microglobin; beta chain of MHC class I molecules
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/rat-elisa-kits/beta-2-microglobulin-b2m/137425>