

Mouse Immunoglobulin M (IgM) ELISA Kit | IgM elisa kit

Mouse Immunoglobulin M (IgM) Mini Samples ELISA Kit

CATALOG #
AAA190110

REACTIVITY
Mouse

PRODUCT SYNONYMS

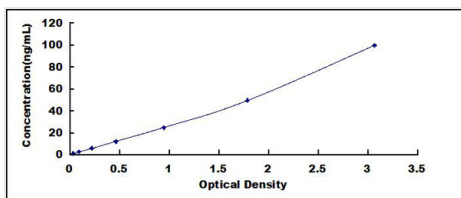
Immunoglobulin M (IgM); Mouse Immunoglobulin M (IgM) Mini Samples ELISA Kit; IgM Mini-sample ELISA kit (Mouse); Immunoglobulin M; IGHM; Immunoglobulin Heavy Constant Mu; Ig mu chain C region; IgM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples Immunoglobulin M (IgM). No significant cross-reactivity or interference between Mini Samples Immunoglobulin M (IgM) and analogues was observed. Reactive with Mouse IgM/Immunoglobulin M
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	0.74ng/mL
Sample Size	15-25uL
Detection Method	Colormetric
Featured Series	ME kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Immunoglobulin M (IgM) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Immunoglobulin M (IgM) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (micro-volume samples 15-25 ul)
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 25ul standard or sample to each well. Incubate 1 hour at 37 degree C 3. Aspirate and add 25ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 25ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 25ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 20ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mini Samples Immunoglobulin M (IgM). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples Immunoglobulin M (IgM). 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 Mini Samples Immunoglobulin M (IgM), 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 Mini Samples Immunoglobulin M (IgM) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Infection immunity, Immune molecule, Hematology
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) 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)

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P01872
UniProt Protein Name	Ig mu chain C region secreted form
UniProt Gene Name	Igh-6
UniProt Entry Name	IGHM_MOUSE

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/mouse-elisa-kits/immunoglobulin-m-igm/190110>