

Human High Mobility Group Box Protein 4 (HMGB4) ELISA Kit | HMGB4 elisa kit

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CATALOG #
AAA161561

REACTIVITY
Human

PRODUCT SYNONYMS

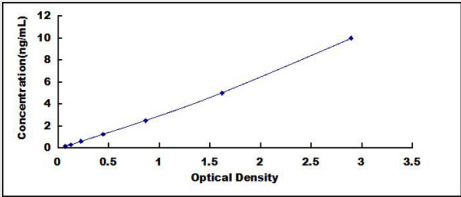
High Mobility Group Box Protein 4 (HMGB4); Human High Mobility Group Box Protein 4 (HMGB4) ELISA Kit; HMGB4 ELISA kit (Human); HMGB4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of High Mobility Group Box Protein 4 (HMGB4). No significant cross-reactivity or interference between High Mobility Group Box Protein 4 (HMGB4) and analogues was observed. Reactive with Human HMGB4/High Mobility Group Box Protein 4
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Method	Colormetric
Featured Series	SE kit
Detection Range	0.156-10ng/mL
Sensitivity	0.062ng/mL
Sample Size	100uL
Assay Time	3h
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level High Mobility Group Box Protein 4 (HMGB4) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level High Mobility Group Box Protein 4 (HMGB4) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul 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 High Mobility Group Box Protein 4 (HMGB4). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to High Mobility Group Box Protein 4 (HMGB4). 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 High Mobility Group Box Protein 4 (HMGB4), 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 High Mobility Group Box Protein 4 (HMGB4) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Infection immunity
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)
Typical Standard Curve for HMGB4 ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	387912835
NCBI GeneID	127540
UniProt Accession #	Q8WW32; Q0QWA4; B2R4X7
Molecular Weight	186
NCBI Official Full Name	High mobility group protein B4
NCBI Official Synonym Full Names	high mobility group box 4
NCBI Official Symbol	HMGB4
NCBI Official Synonym Symbols	dJ1007G16.5
NCBI Protein Information	high mobility group protein B4; HMG2 like
UniProt Protein Name	High mobility group protein B4
UniProt Gene Name	HMGB4
UniProt Entry Name	HMGB4_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.