

Human Histone Cluster 2, H2be (HIST2H2BE) ELISA Kit | HIST2H2BE elisa kit

Human Histone Cluster 2, H2be (HIST2H2BE)(Sandwich ELISA) ELISA Kit

CATALOG #
AAA152427

REACTIVITY
Human

PRODUCT SYNONYMS

Histone Cluster 2; H2be (HIST2H2BE); Human Histone Cluster 2; H2be (HIST2H2BE)(Sandwich ELISA) ELISA Kit; ELISA Kit for Histone Cluster 2; H2BFQ; H2B/q; H2B.1; H2B Histone Family Member Q; HIST2H2BE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Detects protein (regular version) Reactive with Human HIST2H2BE/Histone Cluster 2, H2be This assay has high sensitivity and excellent specificity for detection of Histone Cluster 2, H2be (HIST2H2BE). No significant cross-reactivity or interference between Histone Cluster 2, H2be (HIST2H2BE) and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Sensitivity	12.2pg/mL
Assay Time	3h
Sample Size	100uL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Histone Cluster 2, H2be (HIST2H2BE) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Histone Cluster 2, H2be (HIST2H2BE) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
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 Histone Cluster 2, H2be (HIST2H2BE). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Histone Cluster 2, H2be (HIST2H2BE). 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 Histone Cluster 2, H2be (HIST2H2BE), 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 Histone Cluster 2, H2be (HIST2H2BE) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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.

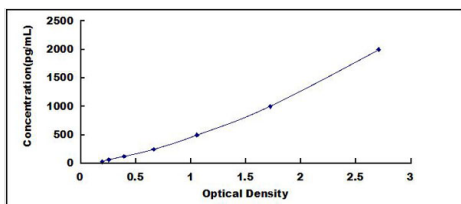
Preparation and Storage

Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life)

Shelf-life: one year

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 HIST2H2BE ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	7387736
NCBI GeneID	8349
UniProt Accession #	Q16778; Q4KMY1; Q5QNX0; Q9UE88; A3KMC7; A8K110
Molecular Weight	126
NCBI Official Full Name	Histone H2B type 2-E
NCBI Official Synonym Full Names	histone cluster 2, H2be
NCBI Official Symbol	HIST2H2BE
NCBI Official Synonym Symbols	H2B; H2BQ; GL105; H2B.1; H2BFQ; H2BGL105
NCBI Protein Information	histone H2B type 2-E; histone H2B.q; histone 2, H2be; histone H2B-GL105; H2B histone family, member Q
UniProt Protein Name	Histone H2B type 2-E
UniProt Gene Name	HIST2H2BE
UniProt Synonym Gene Names	H2BFQ; H2B/q
UniProt Entry Name	H2B2E_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/human-elisa-kits/histone-cluster-2-h2be-hist2h2be/152427>