

Rat Histone H2A (H2A) ELISA Kit | H2A elisa kit

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CATALOG #
AAA137995

REACTIVITY
Rat

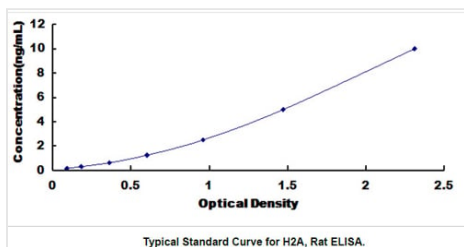
PRODUCT SYNONYMS

Histone H2A (H2A); Rat Histone H2A (H2A) ELISA Kit; H2A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of H2A. No significant cross-reactivity or interference between H2A and analogues was observed.
Sequence Length	125
Samples	Rat tissue homogenates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	The minimum detectable dose of H2A is typically less than 0.067ng/mL. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level H2A were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level H2A were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intended Uses	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of H2A in rat tissue homogenates and other biological fluids.
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 H2A elisa kit	Principle of the assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to H2A. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to H2A. 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 H2A, 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 H2A in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	255683313
NCBI GeneID	100302633
NCBI Accession #	NP_001157464.1
NCBI GenBank Nucleotide #	NM_001163992.1
NCBI Official Full Name	histone H2A
NCBI Official Symbol	LOC100302633
NCBI Protein Information	histone H2A

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://www.aaabiotech.com/rat-elisa-kits/histone-h2a-h2a/137995>