

## Mouse Histone H2A (H2A) ELISA Kit | H2A elisa kit

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CATALOG #  
**AAA138084**

REACTIVITY  
**Mouse**

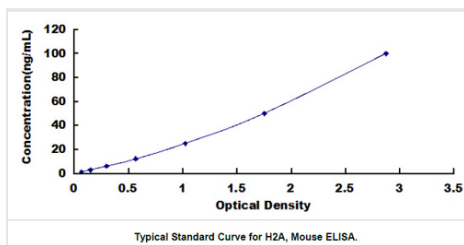
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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                 | Mouse tissue homogenates, Cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                |
| Detection Range         | 1.56-100ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity             | The minimum detectable dose of H2A is typically less than 0.59ng/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 mouse tissue homogenates, cell lysates, cell culture supernates 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.<br>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 | <b>Principle of the assay:</b> 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. |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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://stage.aaabiotech.com/mouse-elisa-kits/histone-h2a-h2a/138084>