

Histone H3-HRP

Cat. QYA04501AHRP

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

Source

Histone H3-HRP mouse monoclonal antibody is produced by immunizing animals with the internal region of human Histone H3 protein, which was conjugated to HRP. The antibody was affinity-purified by affinity-chromatography using specific immunogen.

Product

Each vial contains 50ug mouse IgG diluted in 100ul of PBS pH7.4, containing 1mg/ml BSA, 0.01% thiomersal and 50% glycerol. The antibody concentration is 0.5mg/ml.

Specificity

The antibody detects endogenous Histone H3 proteins.

Applications and Suggested Working Concentration

WB: 1:5000-1:10000

IHC: 1:200

Storage

Storage at -20°C. Do not aliquot the antibody. Stable for one year from the date of shipment.

Research Use

For research use only, not for use in diagnostic procedures.

Histone H3-HRP

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| Catalog No. | QYA04501AHRP |
| Size. | 100ul |
| Gene Name. | HIST1H3A/HIST1H3B/HIST1H3C/HIST1H3D/HIST1H3E/HIST1H3F/HIST1H3G/HIST1H3H/ HIST1H3I/HIST1H3J/HIST2H3A/HIST2H3C/HIST2H3D/H3F3A/H3F3B |
| Protein Name. | Histone H3.1/Histone H3.2/Histone H3.3 |
| Source. | Mouse |
| Immunogen. | Recombinant Protein |
| Purification. | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using specific immunogen. |
| Specificity. | The antibody detects endogenous Histone H3 protein. |
| Formulation. | PBS, pH 7.4, containing 0.01% thiomersal and 50% Glycerol. |
| Concentration. | 0.5mg/ml |
| Storage / Stability. | -20°C/1 year |
| Human Gene ID. | 8350/8351/8352/8353/8354/8355/8356/8357/8358/8968 |
| Human Swiss-Prot No. | P68431/Q71DI3/P84243 |
| Mouse Gene ID | 319152/15077/15078 |
| Mouse Swiss-Prot No. | P68433/P84228/P84244 |
| Rat Gene ID | 291159/100361558 |
| Rat Swiss-Prot No. | Q6LED0/P84245 |
| Reactivity. | H, M, R, Yeast |
| Applications. | WB, IHC |
| Predicted band (Da) | 15273 |
| Observed band (KDa) | 15 |
| Dilution. | WB:1:5000-1:10000, IHC:1:200 |
| Other name. | Histone H3; HIST1H3A; H3FA; HIST1H3B; H3FL; HIST1H3C; H3FC; HIST1H3D; H3FB; HIST1H3E; H3FD; HIST1H3F; H3FI; HIST1H3G; H3FH; HIST1H3H; H3FK; HIST1H3I; H3FF |