

## Recombinant Mouse Macroh2a1 Protein, Myc/DDK-tagged

**Cat. No.** Macroh2a1-3346M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Purified recombinant protein of mouse full-length H2A histone family, member Y (H2afy), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 encodes a replication-independent histone that is a member of the histone H2A family. It replaces conventional H2A histones in a subset of nucleosomes where it represses transcription and participates in stable X chromosome inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms.</p> |
| <b>Molecular Mass</b>   | 39.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                          |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                        |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                         |
| <b>Gene Name</b>        | Macroh2a1 macroH2A.1 histone [ Mus musculus (house mouse) ]                                                                                                                             |
| <b>Official Symbol</b>  | Macroh2a1                                                                                                                                                                               |
| <b>Synonyms</b>         | Macroh2a1; macroH2A.1 histone; H2af; mH2a; H2afy; mH2a1; H2AF12; H2AF12M; MACROH2; core histone macro-H2A.1; H2A histone family, member Y; H2A.y; H2A/y; MACROH2A1.2; histone macroH2A1 |
| <b>Gene ID</b>          | 26914                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_001159515                                                                                                                                                                            |
| <b>Protein Refseq</b>   | NP_001152987                                                                                                                                                                            |
| <b>UniProt ID</b>       | Q9QZQ8                                                                                                                                                                                  |