



# Recombinant Rat Core histone macro-H2A.1 (H2afy)

<b>Product Code</b>	CSB-MP010098RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	Q02874
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MSSRGGKKKS TKTSRSAKAG VIFPVGRMLR YIKKGHPKYR IGVGAPVYMA AVLEYLTAEI LELAGNAARD NKKGRVTPRH ILLAVANDEE LNQLLKGVTI ASGGVLPNIH PELLAKKRGS KGKLEAITP PPAKKAKSPS QKKPVAKKTG GKKGARKSKK QGEVSKAASA DSTTEGAPTD GFTVLSTKSL FLGQKLNLIH SEISNLAGFE VEAIIPTNA DIDLKDDLGS TLEKKGGKEF VEAVLELRKK NGPLEVAGAA VSAGHGLPAK FVIHCNSPVW GADKCEELLE KTVKNCLALA DDRKLKSI AF PSIGSGRNGF PKQTAAQLIL KAISSEYFVST MSSSIKTVYF VLFDESIGI YVQEMAKLDA N
<b>Source</b>	Mammalian cell
<b>Target Names</b>	H2afy
<b>Protein Names</b>	Recommended name: Core histone macro-H2A.1 Short name= Histone macroH2A1 Short name= mH2A1 Alternative name(s): H2A.y H2A/y
<b>Expression Region</b>	1-371
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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 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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.