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

Product Code	CSB-BP010098RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	Q02874
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	MSSRGGKKKS TKTSRSAKAG VIFPVGRMLR YIKKGHPKYR IGVGAPVYMA AVLEYLTAEI LELAGNAARD NKKGRVTPRH ILLAVANDEE LNQLLKGVTI ASGGVLPNIH PELLAKKRGS KGKLEAIITP PPAKKAKSPS QKKPVAKKTG GKKGARKSKK QGEVSKAASA DSTTEGAPTD GFTVLSTKSL FLGQKLNLIH SEISNLAGFE VEAIINPTNA DIDLKDDLGS TLEKKGGKEF VEAVLELRKK NGPLEVAGAA VSAGHGLPAK FVIHCNSPVW GADKCEELLE KTVKNCLALA DDRKLKSIAF PSIGSGRNGF PKQTAAQLIL KAISSYFVST MSSSIKTVYF VLFDSESIGI YVQEMAKLDA N
Source	Baculovirus
Target Names	H2afy
Protein Names	Recommended name: Core histone macro-H2A.1 Short name= Histone macroH2A1 Short name= mH2A1 Alternative name(s): H2A.y H2A/y
Expression Region	1-371
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	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.