abcam

Product datasheet

Recombinant Human Histone H2A.Z protein ab114184

1 Image

Description

Product name	Recombinant Human Histone H2A.Z protein
Expression system	Wheat germ
Accession	**P0C0S5**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAGGKAGKDSGKAKTKAVSRSQRAGLQFPVGRIHRHLKS RTTSHGRVGAT AAVYSAAILEYLTAEVLELAGNASKDLKVKRITPRHLQLAIR GDEELDSL IKATIAGGGVIPHIHKSLIGKKGQQKTV
Predicted molecular weight	40 kDa including tags
Amino acids	1 to 128

Specifications

Our **Abpromise guarantee** covers the use of **ab114184** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE ELISA Western blot
Form	Liquid

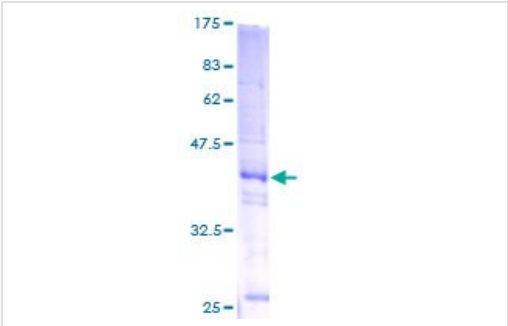
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. May be involved in the formation of constitutive heterochromatin. May be required for chromosome segregation during cell division.
Sequence similarities	Belongs to the histone H2A family.
Post-translational modifications	Monoubiquitination of Lys-122 gives a specific tag for epigenetic transcriptional repression. Acetylated on Lys-5, Lys-8 and Lys-12 during interphase. Acetylation disappears at mitosis. Monomethylated on Lys-5 and Lys-8 by SETD6. SETD6 predominantly methylates Lys-8, lys-5 being a possible secondary site. Not phosphorylated.
Cellular localization	Nucleus. Chromosome.

Images



SDS-PAGE - Recombinant Human Histone H2A.Z protein (ab114184)

ab114184 on a 12.5% SDS-PAGE Stained with Coomassie Blue.

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