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 -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCI

General Info

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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

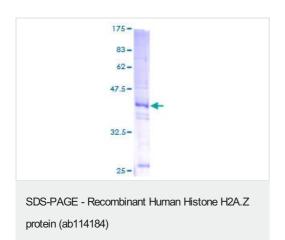
being a possible secondary site.

Not phosphorylated.

Cellular localization

Nucleus. Chromosome.

Images



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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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