

Recombinant Human Histone H2A protein ab200295

[3 References](#) [1 图像](#)

描述

产品名称	重组人Histone H2A蛋白
纯度	> 90 % SDS-PAGE. Affinity purified.
表达系统	Escherichia coli
Accession	<u>Q7L7L0</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MHHHHHHSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHLLR KGNYSERV GAGAPVYLAADVLEYLTAEILELAGNAARDNKKTRIIIPRHLQL AIRNDEEL NKLLGRVTIAQGGVLPNIQAVLLPKKTESHKAKGK
预测分子量	15 kDa including tags
氨基酸	2 to 130
标签	His tag N-Terminus
额外的序列信息	15 kDa including tags

技术指标

Our **Abpromise guarantee** covers the use of **ab200295** in the following tested applications.

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

应用	SDS-PAGE
形式	Liquid

制备和贮存

稳定性和存储	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.79% Tris HCl, 0.87% Sodium chloride, 10% Glycerol (glycerin, glycerine), 0.02%
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常规信息

功能

Core component of nucleosome. 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.

序列相似性

Belongs to the histone H2A family.

翻译后修饰

The chromatin-associated form is phosphorylated on Thr-121 during mitosis.

Deiminated on Arg-4 in granulocytes upon calcium entry.

Monoubiquitination of Lys-120 by RING1 and RNF2/RING2 complex gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. It is involved in the initiation of both imprinted and random X inactivation. Ubiquitinated H2A is enriched in inactive X chromosome chromatin. Ubiquitination of H2A functions downstream of methylation of 'Lys-27' of histone H3. Monoubiquitination of Lys-120 by RNF2/RING2 can also be induced by ultraviolet and may be involved in DNA repair. Following DNA double-strand breaks (DSBs), it is ubiquitinated through 'Lys-63' linkage of ubiquitin moieties by the E2 ligase UBE2N and the E3 ligases RNF8 and RNF168, leading to the recruitment of repair proteins to sites of DNA damage. Monoubiquitination and ionizing radiation-induced 'Lys-63'-linked ubiquitination are distinct events.

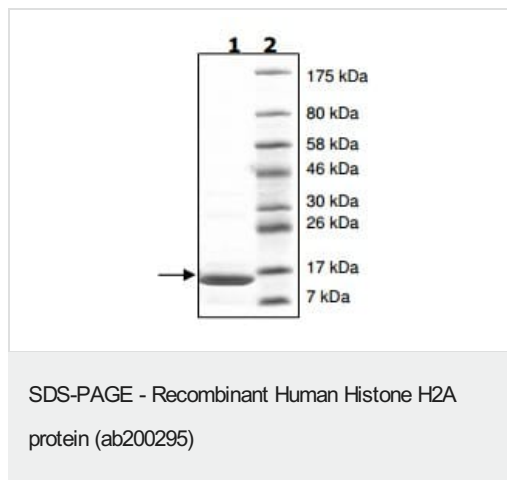
Phosphorylation on Ser-2 is enhanced during mitosis. Phosphorylation on Ser-2 by RPS6KA5/MSK1 directly represses transcription. Acetylation of H3 inhibits Ser-2 phosphorylation by RPS6KA5/MSK1.

Symmetric dimethylation on Arg-4 by the PRDM1/PRMT5 complex may play a crucial role in the germ-cell lineage.

细胞定位

Nucleus. Chromosome.

图片



Lane 1: 4-20 % SDS-PAGE Coomassie staining using 4 μ g ab200295

Lane 2: Marker

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