

# Histone H1<sup>0</sup> (H-85): sc-67324

## BACKGROUND

Histone H1<sup>0</sup> (H1 histone family, member 0) is a lysine-rich member of the H1 family of linker histones. The H1 family of proteins interacts with linker DNA between nucleosomes and mediates compaction into higher order chromatin. Histone H1<sup>0</sup> is a unique variant, considered a replacement linker histone, which is expressed and incorporated into chromatin in the absence of DNA replication. In contrast, the majority of somatic H1 histones are replication-dependent variants found in proliferating cells. Histone H1<sup>0</sup> is expressed in cells that are in the terminal stages of differentiation or that have low rates of cell division. Unlike other differentiation-specific linker histones which demonstrate tissue and species-specific expression, Histone H1<sup>0</sup> is widely expressed in many tissues in most vertebrates. Histone H1<sup>0</sup> is derived from an intronless gene, H1F0, which has been mapped to human chromosome 22q13.1. Histones are subject to posttranslational modification by enzymes, primarily on their N-terminal tails, but also in their globular domains. Such modifications include methylation, citrullination, acetylation, phosphorylation, sumoylation, ubiquitination and ADP-ribosylation.

## CHROMOSOMAL LOCATION

Genetic locus: H1F0 (human) mapping to 22q13.1; H1f0 (mouse) mapping to 15 E1.

## SOURCE

Histone H1<sup>0</sup> (H-85) is a rabbit polyclonal antibody raised against amino acids 1-85 mapping at the N-terminus of Histone H1<sup>0</sup> of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Histone H1<sup>0</sup> (H-85) is recommended for detection of Histone H1<sup>0</sup> of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Histone H1<sup>0</sup> (H-85) is also recommended for detection of Histone H1<sup>0</sup> in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Histone H1<sup>0</sup> siRNA (h): sc-62460, Histone H1<sup>0</sup> siRNA (m): sc-62461, Histone H1<sup>0</sup> shRNA Plasmid (h): sc-62460-SH, Histone H1<sup>0</sup> shRNA Plasmid (m): sc-62461-SH, Histone H1<sup>0</sup> shRNA (h) Lentiviral Particles: sc-62460-V and Histone H1<sup>0</sup> shRNA (m) Lentiviral Particles: sc-62461-V.

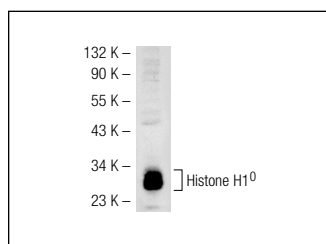
Molecular Weight of Histone H1<sup>0</sup>: 32 kDa.

Positive Controls: Sol8 cell lysate: sc-2249, A-431 whole cell lysate: sc-2201 or Jurkat whole cell lysate: sc-2204.

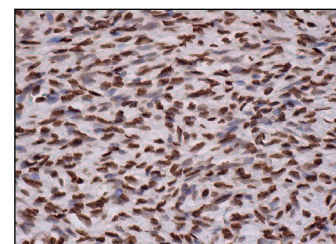
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



Histone H1<sup>0</sup> (H-85): sc-67324. Western blot analysis of Histone H1<sup>0</sup> expression in Sol8 whole cell lysate.



Histone H1<sup>0</sup> (H-85): sc-67324. Immunoperoxidase staining of formalin fixed, paraffin-embedded human ovary tissue showing nuclear staining of ovarian stroma cells.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



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Try **Histone H1<sup>0</sup> (34): sc-56695** or **Histone H1<sup>0</sup> (F-10): sc-377468**, our highly recommended monoclonal alternatives to Histone H1<sup>0</sup> (H-85).