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SANTA CRUZ BIOTECHNOLOGY, INC.

Histone $H1^0$ (m): 293T Lysate: sc-120799

BACKGROUND

Histone $H1^0$ (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 $H1^0$ 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 $H1^0$ 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 $H1^0$ is widely expressed in many tissues in most vertebrates. Histone $H1^0$ is derived from an intronless gene, H1F0 in human which has been mapped to 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: H1f0 (mouse) mapping to 15 E1.

RESEARCH USE

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

PRODUCT

Histone $H1^0$ (m): 293T Lysate represents a lysate of mouse Histone $H1^0$ transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Histone $H1^0$ (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Histone $H1^0$ antibodies. Recommended use: 10-20 µl per lane.

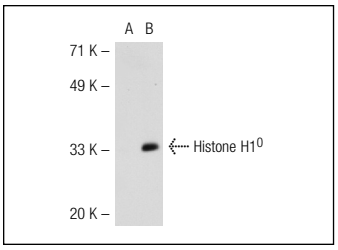
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Histone $H1^0$ (34): sc-56695 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Histone $H1^0$ expression in Histone $H1^0$ transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Histone $H1^0$ (34): sc-56695. Western blot analysis of Histone $H1^0$ expression in non-transfected: sc-117752 (**A**) and mouse Histone $H1^0$ transfected: sc-120799 (**B**) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.