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RNase H1 (h): 293T Lysate: sc-171572

BACKGROUND

The human RNase H1 enzyme is a cytoplasmic endonuclease that degrades the RNA of RNA-DNA hybrids resulting in 5'-phosphomonoester products. Mn^{2+} and N-ethylmaleimide can inhibit Mg^{2+} -dependent RNase H1 activity. The RNase H1 gene is present at similar levels in all human cells and tissues, indicating that RNase H1 may be a housekeeping protein. The human RNase H1 gene maps to chromosome 2p25.3 with pseudogenes present on chromosome 17p11.2 and chromosome 1q.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RNASEH1 (human) mapping to 2p25.3.

PRODUCT

RNase H1 (h): 293T Lysate represents a lysate of human RNase H1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

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.

APPLICATIONS

RNase H1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive RNase H1 antibodies. Recommended use: 10-20 μ l per lane.

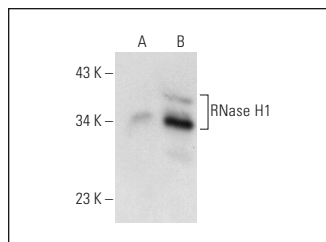
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RNase H1 (S-34): sc-101114 is recommended as a positive control antibody for Western Blot analysis of enhanced human RNase H1 expression in RNase H1 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



RNase H1 (S-34): sc-101114. Western blot analysis of RNase H1 expression in non-transfected: sc-117752 (A) and human RNase H1 transfected: sc-171572 (B) 293T whole cell lysates.

RESEARCH USE

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