HSF2 (h): 293T Lysate: sc-111821



The Power to Question

BACKGROUND

Prokaryotic and eukaryotic cells respond to thermal and chemical stress by inducing a group of genes collectively designated heat shock genes. In eukaryotes, this gene expression is regulated primarily at the transcription level. Heat shock transcription factors (HSF, also designated HSTF) 1 and 2 are involved in this regulation. HSF1 and HSF2 are upregulated by estrogen at both the mRNA and protein level. HSF1 is normally found as a monomer whose transcriptional activity is repressed by constitutive phosphorylation. Upon activation, HSF1 forms trimers, gains DNA binding activity and is translocated to the nucleus. HSF2 activity is associated with differentiation and development; like HSF1, it binds DNA as a trimer. Both HSF1 and HSF2 are known to be induced by proteasome inhibitors of the ubiquitin pathway.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HSF2 (human) mapping to 6q22.31.

PRODUCT

HSF2 (h): 293T Lysate represents a lysate of human HSF2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

HSF2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive HSF2 antibodies. Recommended use: 10-20 µl per lane.

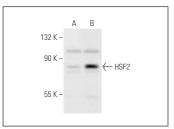
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

HSF2 (3E2): sc-13517 is recommended as a positive control antibody for Western Blot analysis of enhanced human HSF2 expression in HSF2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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.

DATA



HSF2 (3E2): sc-13517. Western blot analysis of HSF2 expression in non-transfected: sc-117752 (**A**) and human HSF2 transfected: sc-111821 (**B**) 2931 whole call lyeates

RESEARCH USE

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

PROTOCOLS

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

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