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HLF (m): 293T Lysate: sc-125451

BACKGROUND

HLF (hepatic leukemia factor) is a 295 amino acid novel nuclear protein that is highly expressed in liver, with lower levels in lung and kidney. Belonging to the bZIP family and the PAR (proline and acidic-rich) subfamily of transcription regulatory proteins, HLF binds DNA specifically as a homodimer or heterodimer with other PAR factors. Chromosomal translocations fusing portions of this gene with the E2A gene causes a subset of childhood B-lineage acute lymphoid leukemias. The E2A-HLF chimeric fusion protein activates SLUG, a mammalian homologue of the cell death specification protein *ces-1* in *Caenorhabditis elegans*, which appears to regulate an evolutionarily conserved cell survival program. E2A-HLF functions as a potent trans-activator. HLF is encoded by a gene located on human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Hlf (mouse) mapping to 11 C.

PRODUCT

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

RESEARCH USE

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

APPLICATIONS

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

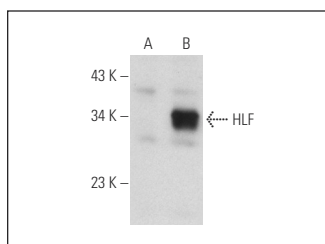
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

HLF (4D8): sc-134359 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse HLF expression in HLF 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



HLF (4D8): sc-134359. Western blot analysis of HLF expression in non-transfected: sc-117752 (A) and mouse HLF transfected: sc-125451 (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.