

HLF (P-13): sc-161712

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 (human) mapping to 17q22; Hlf (mouse) mapping to 11 C.

SOURCE

HLF (P-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HLF of human origin.

RESEARCH USE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-161712 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HLF (P-13) is recommended for detection of HLF of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for HLF siRNA (h): sc-93773, HLF siRNA (m): sc-146044, HLF shRNA Plasmid (h): sc-93773-SH, HLF shRNA Plasmid (m): sc-146044-SH, HLF shRNA (h) Lentiviral Particles: sc-93773-V and HLF shRNA (m) Lentiviral Particles: sc-146044-V.

Molecular Weight of HLF: 33 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

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



Try **HLF (4D8): sc-134359**, our highly recommended monoclonal alternative to HLF (P-13).