

AHSP (L-16): sc-69344

BACKGROUND

α -hemoglobin stabilizing protein (AHSP), also designated erythroid associated factor (ERAF), is an erythroid-specific protein that acts as a chaperone to prevent the aggregation of α -hemoglobin during normal erythroid cell development. It specifically protects free α -hemoglobin from precipitation in live cells and in solution. It forms a heterodimer with free α -hemoglobin, but not with β -hemoglobin or hemoglobin A ($\alpha 2$ - β -2). AHSP localizes to the cytoplasm and is expressed in the blood and bone marrow. The AHSP protein is down-regulated in transmissible spongiform encephalopathies (TSEs). AHSP may regulate pathological states of α -hemoglobin excess such as β -thalassemia, a group of hereditary disorders involving the decreased production of normal adult hemoglobin (HbA) that are characterized by a deficiency in the synthesis of β -globin chains.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ERAF (human) mapping to 16p11.2.

SOURCE

AHSP (L-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of AHSP of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-69344 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AHSP (L-16) is recommended for detection of AHSP of 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 AHSP siRNA (h): sc-60137, AHSP shRNA Plasmid (h): sc-60137-SH and AHSP shRNA (h) Lentiviral Particles: sc-60137-V.

Molecular Weight of AHSP: 12 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.

RESEARCH USE

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

PROTOCOLS

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



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Try **AHSP (D-12): sc-515436**, our highly recommended monoclonal alternative to AHSP (L-16).