

AHSP (N-16): sc-69345

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 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-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-69345 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AHSP (N-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.



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