

AHSP (M-102): sc-292378

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 downregulated 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: Ahsp (mouse).

SOURCE

AHSP (M-102) is a rabbit polyclonal antibody raised against amino acids 1-102 representing full length AHSP of mouse origin.

PRODUCT

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

RESEARCH USE

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

APPLICATIONS

AHSP (M-102) is recommended for detection of AHSP of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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 (m): sc-60138, AHSP shRNA Plasmid (m): sc-60138-SH and AHSP shRNA (m) Lentiviral Particles: sc-60138-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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.