

Anti-AHSP/Eraf Antibody

Catalog Number: A05948

About AHSP

AHSP Antibody detects Alpha hemoglobin stabilizing protein (AHSP). AHSP acts as a chaperone to prevent the harmful aggregation of alpha-hemoglobin during normal erythroid cell development. AHSP binds free α -globin to promote its folding and inhibit its ability to produce damaging reactive oxygen species. Reduced AHSP levels correlate with increased severity of β -thalassemia in some human cohorts.

Overview

Product Name	Anti-AHSP/Eraf Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-AHSP/Eraf Antibody (Catalog # A05948). Tested in IHC, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at 4°C prior to restoration. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship at ambient temperature.)
Host	Rabbit
Uniprot ID	Q9NZD4

Technical Details

Immunogen	Anti-AHSP Antibody was produced from whole rabbit serum prepared by repeated immunizations with the full length human AHSP protein.
Isotype	Antiserum
Form	Lyophilized
Concentration	115 mg/mL by Refractometry
Purification	Anti-AHSP Antibody is directed against the human AHSP protein. The product was prepared from monospecific antiserum by delipidation and defibrination. A BLAST analysis was used to suggest cross-reactivity with human and mouse. Cross-reactivity with AHSP from other sources have not been determined.

Suggested Dilutions

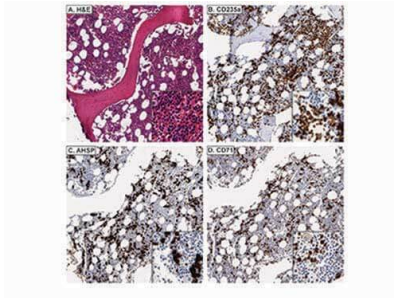
ELISA: 1:2,000 - 1:10,000

IHC: 1:8000

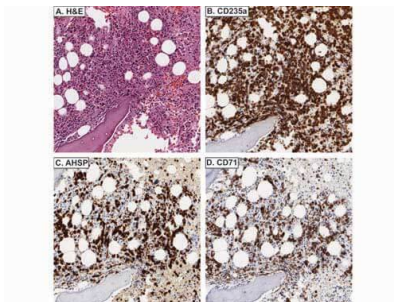
WB: 1:500-1:1000

Anti-AHSP Antibody has been tested in western blot and immunohistochemistry and is suitable for immunofluorescence microscopy using paraformaldehyde-fixed primary cardiomyocyte cultures and ELISA. Specific conditions for reactivity should be optimized by the end user.

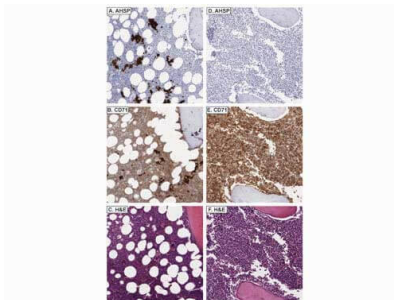
Anti-AHSP/Eraf Antibody (A05948) Images



Immunohistochemistry of Rabbit anti-AHSP antibody. Tissue: A.) Normal bone marrow, H&E. B.) CD235a stains both nucleated EPs and mature, anucleate RBCs. C.) AHSP stains nucleated EPs, but not mature, anucleate RBCs. D.) CD71 stains nucleated EPs, but not mature, anucleate RBCs. Fixation: acetic acid-zinc-formalin and formalin fixation, embedded in paraffin. Antigen retrieval: TRIS-EDTA pH9.0. Primary antibody: AHSP antibody at 1:8,000 for overnight at 4°C. Secondary antibody: anti-rabbit secondary at 1:10,000 for 45 min at RT. Localization: Anti-AHSP is cytoplasmic. Staining: AHSP antibody as precipitated brown signal with a purple nuclear counterstain using Bond-max™ - fully automated for IHC.

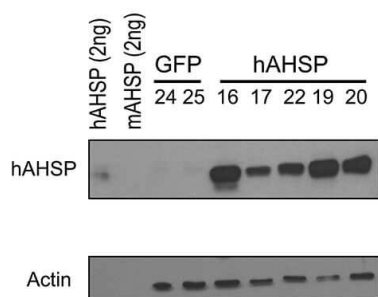


Immunohistochemistry of Rabbit anti-AHSP antibody. Tissue: A.) Acute erythroleukemia, H&E. B.) CD235a stains erythroid blasts and mature, anucleate RBCs. C.) AHSP stains erythroid blasts. D.) CD71 stains erythroid blasts. Fixation: acetic acid-zinc-formalin and formalin fixation, embedded in paraffin. Antigen retrieval: TRIS-EDTA pH9.0. Primary antibody: AHSP antibody at 1:8,000 for overnight at 4°C. Secondary antibody: anti-rabbit secondary at 1:10,000 for 45 min at RT. Localization: Anti-AHSP is cytoplasmic. Staining: AHSP antibody as precipitated brown signal with a purple nuclear counterstain using Bond-max™ - fully automated for IHC.



Immunohistochemistry of Rabbit anti-AHSP antibody. CD71 stains myeloid blasts in acute myeloid leukemia, whereas AHSP does not. AHSP stains residual EPs and not myeloid blasts in acute myeloid leukemia with minimal differentiation. (A), whereas CD71 stains both myeloid blasts and EPs (B). AHSP does not stain myeloid blasts in acute myelomonocytic leukemia (D), whereas CD71 does (E). C and F are corresponding H&Es, respectively. Fixation: acetic acid-zinc-formalin and formalin fixation, embedded in paraffin. Antigen retrieval: TRIS-EDTA pH9.0. Primary antibody: AHSP antibody at 1:8,000 for overnight at 4°C. Secondary antibody: anti-rabbit secondary at 1:10,000 for 45 min at RT. Localization: Anti-AHSP is cytoplasmic. Staining: AHSP antibody as precipitated brown signal with a purple nuclear counterstain using Bond-max™ - fully automated for IHC.

Immunohistochemistry of Rabbit anti-AHSP antibody. AHSP and CD71 stain megakaryocytes in primary myelofibrosis. Tissue: A.) Primary myelofibrosis, H&E. B.) CD235a stains both nucleated EPs and mature, anucleate RBCs. AHSP C.) and CD71. D.) variably stain megakaryocytes and also stain nucleated EPs. Fixation: acetic acid-zinc-formalin and formalin fixation, embedded in paraffin. Antigen retrieval: TRIS-EDTA pH9.0. Primary antibody: AHSP antibody at



Western Blot of Rabbit anti-AHSP antibody. Lane 1: Recombinant hAHSP (2 ng). Lane 2: Recombinant mAHSP (2 ng). Lane 3: RBC Lysates Mouse #24 - GFP. Lane 4: RBC Lysates Mouse #25 - GFP. Lane 5: RBC Lysates Mouse #16 - hAHSP. Lane 6: RBC Lysates Mouse #17 - hAHSP. Lane 7: RBC Lysates Mouse #22 - hAHSP. Lane 8: RBC Lysates Mouse #19 - hAHSP. Lane 9: RBC Lysates Mouse #20 - hAHSP. Load: if not described differently, 10 ng per lane. Primary antibody: hAHSP antibody, Beta-Actin antibody at 1:1,000 for overnight at 4°C. Secondary antibody: HRP Streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: 5% dry milk 30 min at RT. Predicted/Observed size: ~12kDa. Other band(s): none.

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Anti-AHSP/Eraf Antibody

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