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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet for 100-401-E79S**AHSP Antibody****Overview**

| | |
|----------------------|--|
| Description: | Anti-AHSP (RABBIT) Antibody - 100-401-E79S |
| Item No.: | 100-401-E79S |
| Size: | 25 µL |
| Applications: | IHC, WB |
| Reactivity: | Human, Mouse |
| Host Species: | Rabbit |

Product Details

| | |
|----------------------|--|
| Background: | 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. |
| Synonyms: | rabbit anti-AHSP antibody, Alpha-hemoglobin-stabilizing protein (AHSP), Erythroid differentiation-related factor, Erythroid-associated factor, EDRF, ERAF |
| Host Species: | Rabbit |
| Clonality: | Polyclonal |
| Format: | Antiserum |

Target Details

| | |
|------------------------|---|
| Gene Name: | AHSP |
| Reactivity: | Human, Mouse |
| Immunogen Type: | Recombinant Protein |
| Immunogen: | Anti-AHSP Antibody was produced from whole rabbit serum prepared by repeated immunizations with the full length human AHSP protein. |

Purity/Specificity: 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.

Relevant Links:

- [GeneID - 51327](#)
- [NCBI - NP_057717.1](#)
- [UniProtKB - Q9NZD4](#)

Application Details

Tested Applications: IHC, WB

Application Note: 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.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

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

IHC: 1:8000

WB: 1:500-1:1000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 115 mg/mL by Refractometry

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

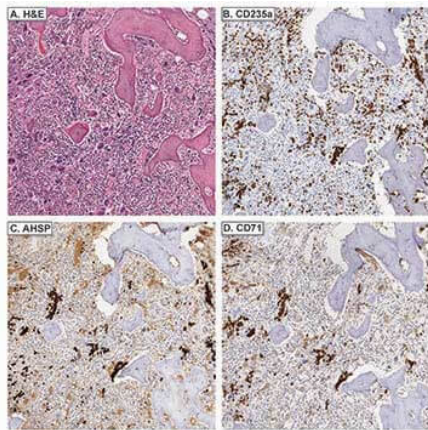
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

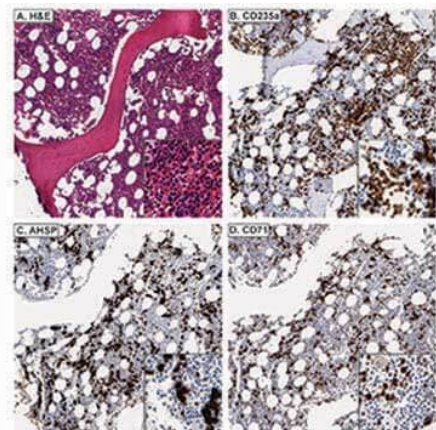
Expiration: Expiration date is one (1) year from date of receipt.

Images



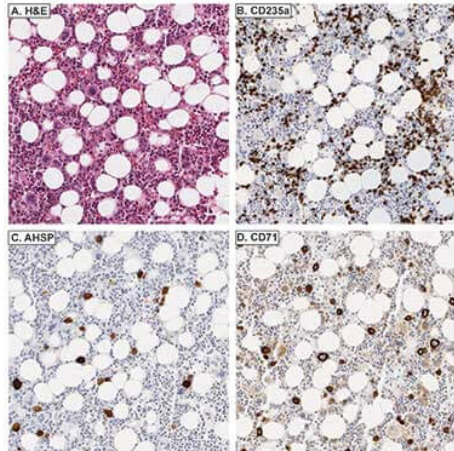
Immunohistochemistry

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 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.



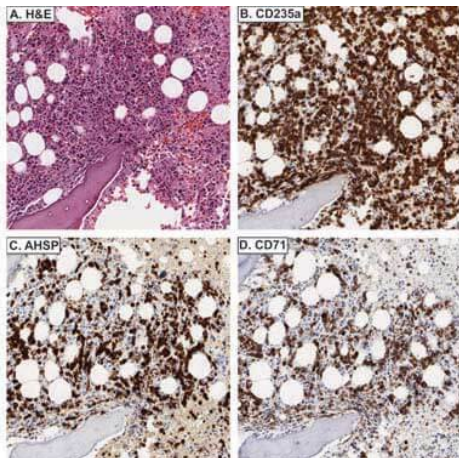
Immunohistochemistry

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.



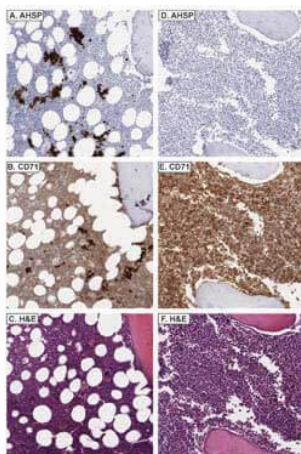
Immunohistochemistry

Immunohistochemistry of Rabbit anti-AHSP antibody.
 Tissue: A.) Giant pronormoblasts are evident in parvoviral infection, H&E. B.) CD235a does not stain giant pronormoblasts. C.) AHSP and D.) CD71 stain giant pronormoblasts. 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.



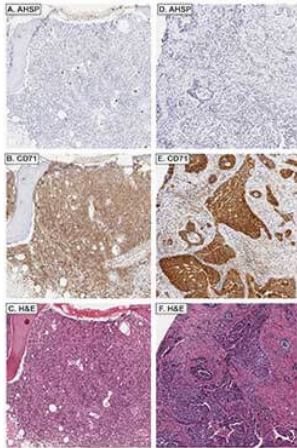
Immunohistochemistry

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

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.

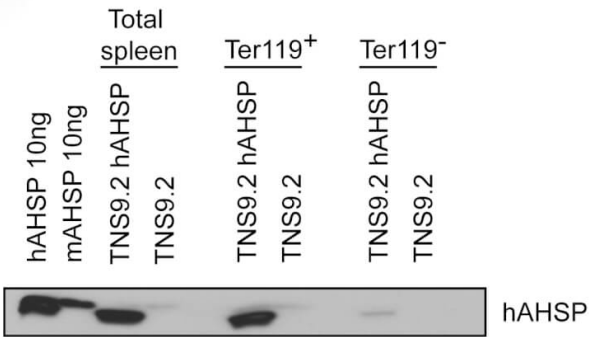


Immunohistochemistry

Immunohistochemistry of Rabbit anti-AHSP antibody. AHSP (A) stains residual EPs and not lymphoma cells in DLBCL, whereas CD71 (B) stains both lymphoma cells and EPs. C. Corresponding H&E. AHSP (D) does not metastatic carcinoma, whereas CD71 (E) does. F. Corresponding H&E. 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.

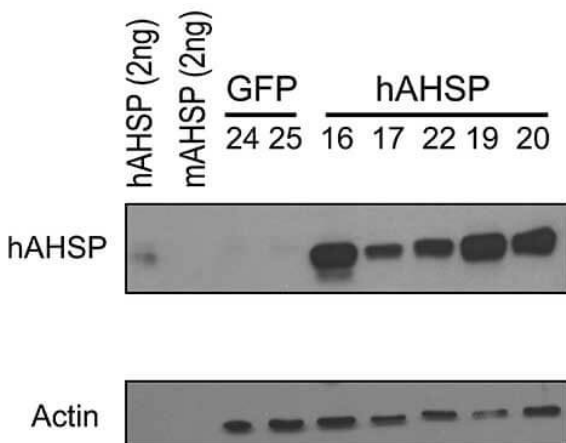
Western Blot

Western Blot of Rabbit anti-AHSP antibody. Lane 1: Recombinant hAHSP (10ng). Lane 2: Recombinant mAHP (10ng). Lane 3: mice Spleen cells transfected with TNS9.2-hAHSP. Lane 4: mice Spleen cells transfected with TNS9.2 control vector. Lane 5: mice Spleen cells transfected with TNS9.2-hAHSP fractionated by MACS using Ter119+ microbeads. Lane 6: mice Spleen cells transfected with TNS9.2 control vector fractionated by Ter119+. Lane 7: mice Spleen cells transfected with TNS9.2-hAHSP fractionated by Ter119-. Lane 8: Spleen cells from mice transduced with TNS9.2 control vector fractionated by Ter119-. Load: 10 ng per lane. Primary antibody: AHSP 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.



Western Blot

Western Blot of Rabbit anti-AHSP antibody. Lane 1: Recombinant hAHSP (2 ng). Lane 2: Recombinant mAHP (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.



References

- Turnis M. et al. Requirement for Anti-Apoptotic MCL-1 during Early Erythropoiesis. *Blood* (2020)
- Raess PW et al. α -Hemoglobin-stabilizing Protein Is a Sensitive and Specific Marker of Erythroid Precursors. *Am J Surg Pathol* (2012)
- Nasimuzzaman M. et al. Analysis of alpha hemoglobin stabilizing protein overexpression in murine b-thalassemia. *American Journal of Hematology* (2010)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.