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Datasheet for ABIN1043695

anti-aHSP antibody

3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	aHSP
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This aHSP antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Fluorescence Microscopy (FM), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Immunogen:	Anti-AHSP Antibody was produced from whole rabbit serum prepared by repeated immunizations with the full length human AHSP protein. Immunogen Type: RecombinantProtein
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.
Characteristics:	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 a-globin to promote its folding and inhibit its ability to produce damaging reactive oxygen species. Reduced AHSP levels correlate with increased severity of b-thalassemia in some human cohorts.

Target Details

Target:	aHSP
Alternative Name:	AHSP (aHSP Products)
Background:	<p>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 a-globin to promote its folding and inhibit its ability to produce damaging reactive oxygen species. Reduced AHSP levels correlate with increased severity of beta-thalassemia in some human cohorts.</p> <p>Synonyms: Alpha-hemoglobin-stabilizing protein (AHSP), Erythroid differentiation-related factor, Erythroid-associated factor, EDRF, ERAF</p>
Gene ID:	51327
NCBI Accession:	NP_057717
UniProt:	Q9NZD4

Application Details

Application Notes:	Anti-AHSP Antibody is suitable for western blotting, immunohistochemistry (Formalin-fixed paraffin-embedded sections), immunofluorescence microscopy using paraformaldehyde-fixed primary cardiomyocyte cultures and ELISA. Specific conditions for reactivity should be optimized by the end user.
Comment:	Gene Name: AHSP
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 100 µL
Concentration:	86 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: 4 °C/-20 °C

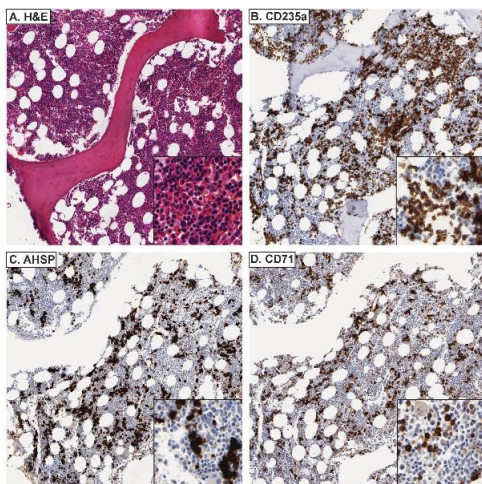
Storage Comment: Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.

Expiry Date: 12 months

Publications

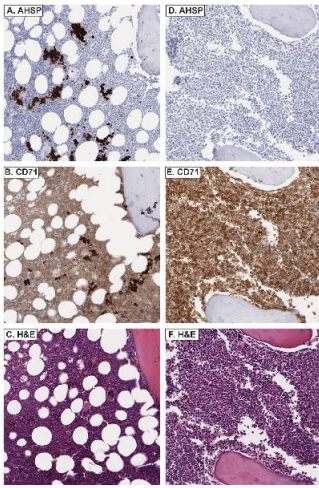
Product cited in: Purkey, Woolfrey, Crosby, Stich, Chick, Aoto, DellAcqua: "AKAP150 Palmitoylation Regulates Synaptic Incorporation of Ca²⁺-Permeable AMPA Receptors to Control LTP." in: **Cell reports**, Vol. 25, Issue 4, pp. 974-987.e4, (2018) ([PubMed](#)).

Validation report #104424 for Immunohistochemistry (IHC)



Immunohistochemistry

Image 1. 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

Image 2.

Western Blotting

Image 3.

