

Datasheet for ABIN7143995
anti-AIMP1 antibody (AA 25-180)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	AIMP1
Binding Specificity:	AA 25-180
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AIMP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 protein (25-180AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	AIMP1
Alternative Name:	AIMP1 (AIMP1 Products)
Background:	Background: Non-catalytic component of the multisynthase complex. Stimulates the catalytic

Target Details

activity of cytoplasmic arginyl-tRNA synthase. Binds tRNA. Possesses inflammatory cytokine activity. Negatively regulates TGF-beta signaling through stabilization of SMURF2 by binding to SMURF2 and inhibiting its SMAD7-mediated degradation. Involved in glucose homeostasis through induction of glucagon secretion at low glucose levels. Promotes dermal fibroblast proliferation and wound repair. Regulates KDELRL1-mediated retention of HSP90B1/gp96 in the endoplasmic reticulum. Plays a role in angiogenesis by inducing endothelial cell migration at low concentrations and endothelial cell apoptosis at high concentrations. Induces maturation of dendritic cells and monocyte cell adhesion. Modulates endothelial cell responses by degrading HIF-1A through interaction with PSMA7.

Aliases: AIMP 1 antibody, Aimp1 antibody, AIMP1/p43 antibody, AIMP1_HUMAN antibody, Aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 antibody, ARS interacting multifunctional protein 1 antibody, EMAP 2 antibody, EMAP-2 antibody, EMAP-II antibody, EMAP2 antibody, EMAPII antibody, Endothelial monocyte activating polypeptide 2 antibody, Endothelial monocyte activating polypeptide antibody, Endothelial monocyte-activating polypeptide 2 antibody, Endothelial monocyte-activating polypeptide II antibody, HLD3 antibody, Multisynthase complex auxiliary component p43 antibody, Multisynthetase complex auxiliary component p43 antibody, OTTHUMP00000219673 antibody, p43 antibody, Scye 1 antibody, Scye1 antibody, Scye1, formerly antibody, Small inducible cytokine subfamily E member 1 antibody, Small inducible cytokine subfamily E, member 1 (endothelial monocyte-activating) antibody, Small inducible cytokine subfamily E, member 1, formerly antibody

UniProt: [Q12904](#)

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:200-1:500, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

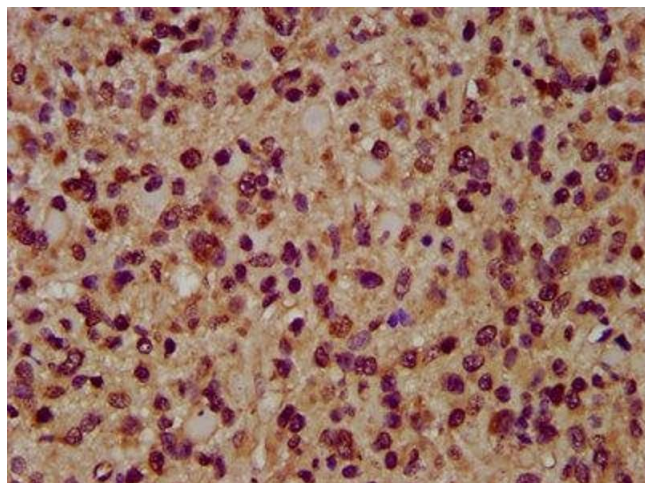
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C, -80 °C

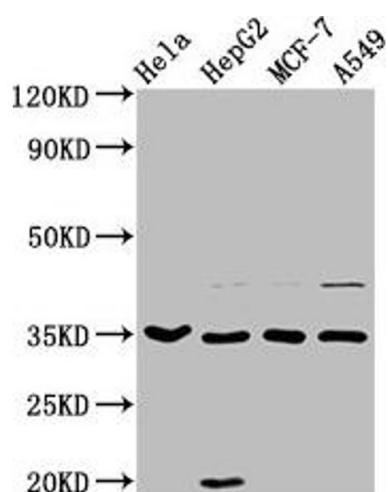
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



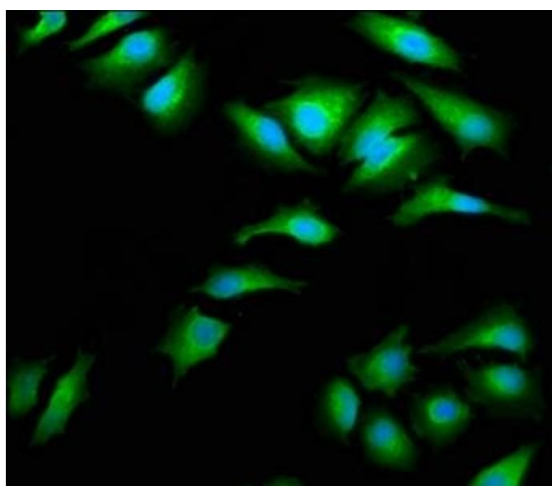
Immunohistochemistry

Image 1. IHC image of ABIN7143995 diluted at 1:200 and staining in paraffin-embedded human glioma performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: HeLa whole cell lysate, HepG2 whole cell lysate, MCF-7 whole cell lysate, A549 whole cell lysate. All lanes: AIMP1 antibody at 3.7 µg/mL. Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 35, 38 kDa. Observed band size: 35 kDa.



Immunofluorescence

Image 3. Immunofluorescence staining of HeLa cells with ABIN7143995 at 1:66, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Images

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7143995.