
Product Name: KD-Validated AIMP1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00618**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 34.4kDa

Antigen Information

Gene Name	AIMP1 AIMP1; Aminoacyl TRNA Synthetase Complex Interacting Multifunctional Protein 1; EMAPII; SCYE1; P43; Small Inducible Cytokine Subfamily E, Member 1 (Endothelial Monocyte-Activating); Aminoacyl TRNA Synthase Complex-Interacting Multifunctional Protein 1;
Alternative Names	Multisynthetase Complex Auxiliary Component P43; Multisynthetase Complex Auxiliary Component P43; ARS-Interacting Multifunctional Protein 1; EMAP-2; EMAP2; Endothelial-Monocyte Activating Polypeptide II; Endothelial Monocyte-Activating Polypeptide; EMAP II; HLD3
Gene ID	9255.0
SwissProt ID	Q12904
Immunogen	A synthesized peptide derived from human EMAP II

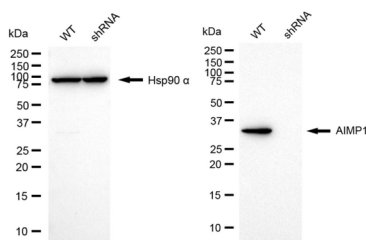
Background

The protein encoded by this gene is a cytokine that is specifically induced by apoptosis, and it is involved in the control of angiogenesis, inflammation, and wound healing. The release of this cytokine renders the tumor-associated vasculature sensitive to tumor necrosis factor. The precursor protein is identical to the p43 subunit, which is associated with the multi-tRNA synthetase complex, and it modulates aminoacylation activity of tRNA synthetase in normal cells. This protein is also involved in the stimulation of inflammatory responses after proteolytic cleavage in tumor cells. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene has been identified on chromosome 20. [provided by RefSeq, Dec 2008]

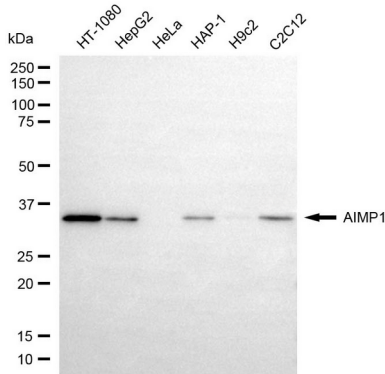
Research Area

Cell Biology, Cardiovascular, Immunology, Tags & Cell Markers, Epigenetics and Nuclear Signaling, Cancer

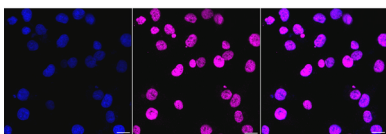
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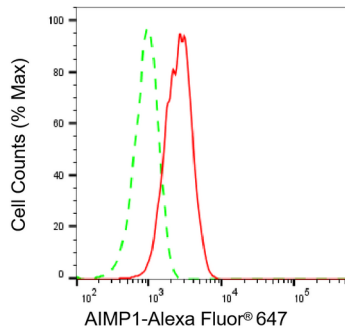
Western blotting analysis using AIMP1 antibody (KVA00618). AIMP1 expression in wild-type (WT) and AIMP1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with AIMP1 antibody (KVA00618, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using AIMP1 antibody (KVA00618). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with AIMP1 antibody (KVA00618, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with AIMP1 antibody (KVA00618, 1:1,000). Nuclei were stained blue with DAPI; AIMP1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of AIMP1 expression in HT-1080 cells using AIMP1 antibody (KVAb00618, 1:2,000). Green, isotype control; red, AIMP1.