

KD-Validated Anti-AIMP1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1981**Specification****KD-Validated Anti-AIMP1 Rabbit Monoclonal Antibody - Product Information**

| | |
|-------------------|--|
| Application | WB |
| Primary Accession | Q12904 |
| Reactivity | Rat, Human, Mouse |
| Clonality | Monoclonal |
| Isotype | Rabbit IgG |
| Calculated MW | Predicted, 34 kDa, observed, 34 kDa kDa |
| Gene Name | AIMP1 |
| Aliases | AIMP1; Aminoacyl tRNA Synthetase Complex Interacting Multifunctional Protein 1; EMAP1; SCYE1; P43; Small Inducible Cytokine Subfamily E, Member 1 (Endothelial Monocyte-Activating); Aminoacyl tRNA Synthase Complex-Interacting Multifunctional Protein 1; Multisynthetase Complex Auxiliary Component P43; Multisynthase Complex Auxiliary Component P43; ARS-Interacting Multifunctional Protein 1; EMAP-2; EMAP2; Endothelial-Monocyte Activating Polypeptide II; Endothelial Monocyte-Activating Polypeptide; EMAP II; HLD3 |
| Immunogen | A synthesized peptide derived from human EMAP II |

KD-Validated Anti-AIMP1 Rabbit Monoclonal Antibody - Additional Information

| | |
|--------------------|--|
| Gene ID | 9255 |
| Other Names | Aminoacyl tRNA synthase complex-interacting multifunctional protein 1, Multisynthase complex auxiliary component p43, Endothelial monocyte-activating polypeptide 2, EMAP-2, Endothelial monocyte-activating polypeptide II, EMAP-II, Small inducible cytokine subfamily E member 1, AIMP1, EMAP2, SCYE1 |

KD-Validated Anti-AIMP1 Rabbit Monoclonal Antibody - Protein Information**Name** AIMP1**Synonyms** EMAP2, SCYE1**Function**

Non-catalytic component of the multisynthase complex. Stimulates the catalytic activity of

cytoplasmic arginyl-tRNA synthase (PubMed:10358004). Binds tRNA. Possesses inflammatory cytokine activity (PubMed:11306575). Negatively regulates TGF-beta signaling through stabilization of SMURF2 by binding to SMURF2 and inhibiting its SMAD7- mediated degradation (By similarity). Involved in glucose homeostasis through induction of glucagon secretion at low glucose levels (By similarity). Promotes dermal fibroblast proliferation and wound repair (PubMed:16472771). Regulates KDELR1-mediated retention of HSP90B1/gp96 in the endoplasmic reticulum (By similarity). Plays a role in angiogenesis by inducing endothelial cell migration at low concentrations and endothelial cell apoptosis at high concentrations (PubMed:12237313). Induces maturation of dendritic cells and monocyte cell adhesion (PubMed:11818442). Modulates endothelial cell responses by degrading HIF-1A through interaction with PSMA7 (PubMed:19362550).

Cellular Location

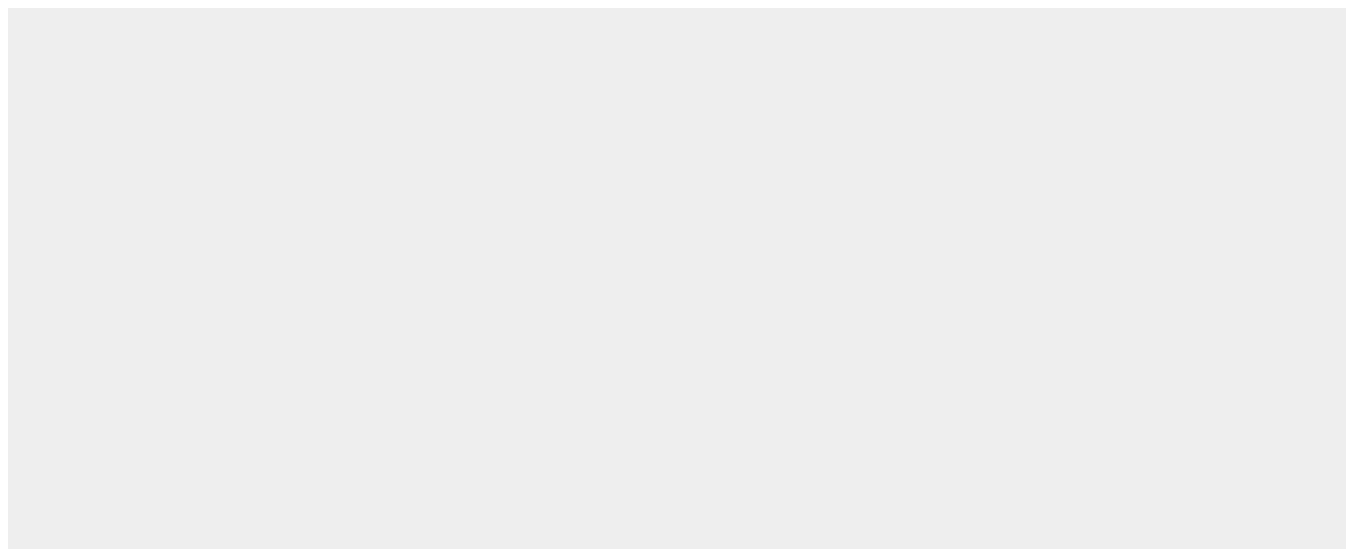
Nucleus. Cytoplasm, cytosol. Secreted. Endoplasmic reticulum {ECO:0000250|UniProtKB:P31230}. Golgi apparatus {ECO:0000250|UniProtKB:P31230}. Note=Enriched in secretory vesicles of pancreatic alpha cells and secreted from the pancreas in response to low glucose levels (By similarity). Secreted in response to hypoxia (PubMed:10850427). Also secreted in response to both apoptotic and necrotic cell death. {ECO:0000250|UniProtKB:P31230, ECO:0000269|PubMed:10850427}

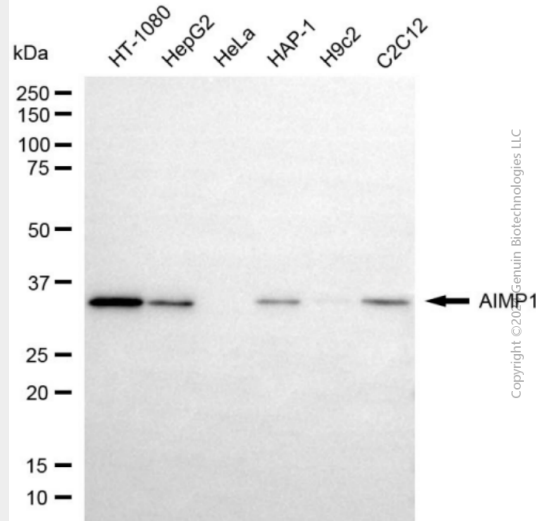
KD-Validated Anti-AIMP1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

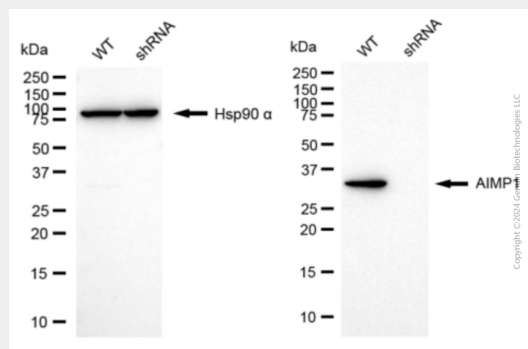
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-AIMP1 Rabbit Monoclonal Antibody - Images





Western blotting analysis using anti-AIMP1 antibody (Cat#AGI1981). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-AIMP1 antibody (Cat#AGI1981, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-AIMP1 antibody (Cat#AGI1981). 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 anti-AIMP1 antibody (Cat#AGI1981, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.