

# Rabbit anti-Human Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 Polyclonal Antibody | anti-AIMP1 antibody

Rabbit anti-human Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 polyclonal Antibody(AIMP1)

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                   |
|-----------|--------|------------|----------------------------------------------------------------|
| AAA119338 | Rabbit | Human      | Immunoprecipitation, Immunohistochemistry, Western Blot, ELISA |

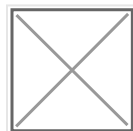
## PRODUCT SYNONYMS

Aminoacyl tRNA synthase complex-interacting multifunctional protein 1; Polyclonal Antibody; Rabbit anti-human Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 polyclonal Antibody(AIMP1); Multisynthase complex auxiliary component p43; EMAP-2; Endothelial monocyte-activating polypeptide II; EMAP-II; Small inducible cytokine subfamily E member 1; AIMP1; EMAP2; SCYE1; anti-AIMP1 antibody

## PRODUCT SPECIFICATIONS

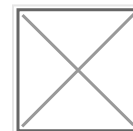
|                                                 |                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                         |
| Reactivity                                      | Human                                                                                                          |
| Clonality                                       | Polyclonal                                                                                                     |
| Isotype                                         | IgG                                                                                                            |
| Purity/Purification                             | Antigen Affinity Purified                                                                                      |
| Sequence Length                                 | 312                                                                                                            |
| Applicable Applications for anti-AIMP1 antibody | IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot), ELISA                                 |
| Storage Buffer                                  | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                                                              |
| Conjugate                                       | Non-conjugated                                                                                                 |
| Immunogen                                       | Recombinant human Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 protein(25-180aa)      |
| Santa Cruz Alternative                          | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-27564 / sc-66879                       |
| Preparation and Storage                         | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |

## IMAGES



### IP (Immunoprecipitation)

Immunoprecipitating AIMP1 in HepG2 whole cell lysate Lane 1: Rabbit monoclonal IgG(1ug) instead of AAA119338 in HepG2 whole cell lysate. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the Secondary antibody (1/50000) Lane 2: AAA119338(4ug)+ HepG2 whole cell lysate(500ug) Lane 3: HepG2 whole cell lysate (20ug)



### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon cancer using AAA119338 at dilution 1:100



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human cervical cancer using AAA119338 at dilution 1:100



#### WB (Western Blot)

Western blotAll lanes: Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 antibody at 2ug/ml+HepG2 whole cell lysateSecondaryGoat polyclonal to rabbit at 1/10000 dilutionPredicted band size: 35,38 kDaObserved band size: 34 kDa

## ADDITIONAL INFORMATION

### Related Product Information for anti-AIMP1 antibody

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

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| NCBI GI #                        | 215490009                                                                       |
| NCBI GeneID                      | 9255                                                                            |
| NCBI Accession #                 | NP_001135887.1                                                                  |
| NCBI GenBank Nucleotide #        | NM_001142415.1                                                                  |
| UniProt Accession #              | Q12904; Q6FG28; Q96CQ9; B3KTR2; B4E1S7                                          |
| Molecular Weight                 | 37,039 Da                                                                       |
| NCBI Official Full Name          | aminoacyl tRNA synthase complex-interacting multifunctional protein 1 isoform a |
| NCBI Official Synonym Full Names | aminoacyl tRNA synthetase complex-interacting multifunctional protein 1         |
| NCBI Official Symbol             | AIMP1                                                                           |
| NCBI Official Synonym Symbols    | p43; HLD3; EMAP2; SCYE1; EMAPII                                                 |
| NCBI Protein Information         | aminoacyl tRNA synthase complex-interacting multifunctional protein 1           |
| UniProt Protein Name             | Aminoacyl tRNA synthase complex-interacting multifunctional protein 1           |
| UniProt Gene Name                | <b>AIMP1</b>                                                                    |
| UniProt Synonym Gene Names       | EMAP2; SCYE1; EMAP-2; EMAP-II                                                   |
| UniProt Entry Name               | AIMP1_HUMAN                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aminoacyl-trna-synthase-complex-interacting-multifunctional-protein-1-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/119338>