

Rabbit anti-Mouse EMAP-II/AIMP1 Polyclonal Antibody | anti-AIMP1 antibody

Anti-EMAP-II/AIMP1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257214	Rabbit	Mouse	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

EMAP-II/AIMP1; Polyclonal Antibody; Anti-EMAP-II/AIMP1 Antibody; Rabbit Polyclonal; AIMP1/EMAP II Antibody; Rabbit PAb; Antigen Affinity Purified; aminoacyl tRNA synthetase complex-interacting multifunctional protein 1; Anti-9830137A06Rik Antibody; Anti-AIMP1 Antibody; Anti-AIMP1/p43 Antibody; Anti-Emap2 Antibody; Anti-EMAPII Antibody; Anti-p43 Antibody; Anti-Scye1 Antibody; anti-AIMP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse AIMP1/EMAP II
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-AIMP1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse AIMP1/EMAP II protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse AIMP1/EMAP II. AIMP1/EMAP II specific IgG was purified by Mouse AIMP1/EMAP II affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-SCYE1 rabbit polyclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lane B: Rat brain Tissue Lysate Lane C: 293T Whole Cell Lysate Lane D: HepG2 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 34 kDa Observed band size: 38 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)

Mouse SCYE1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate Lane B: 0.5 mg 293T Whole Cell Lysate 2 uL anti-Mouse SCYE1 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-Mouse SCYE1 rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique. Performed under reducing conditions. Predicted band size: 38 kDa Observed band size: 38 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-AIMP1 antibody	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1, also known as Multisynthase complex auxiliary component p43, Endothelial monocyte-activating polypeptide II, AIMP1, EMAP2 and SCYE1, is a nucleus protein which contains one tRNA-binding domain. AIMP1 (also known as p43) is a factor associated with a macromolecular aminoacyl-tRNA synthetase (ARS) complex but also plays diverse regulatory roles in various physiological processes. AIMP1 negatively regulates TGF-beta signaling via stabilization of Smurf2. It suggests the novel activity of AIMP1 as a component of negative feedback loop of TGF-beta signaling. Recently, it been demonstrated that AIMP1 is also secreted and acts as a novel pleiotropic cytokine. AIMP1 protein induces the maturation and activation of DCs, which skew the immune response toward a Th1 response. AIMP1 is known as a cytokine working in the control of angiogenesis, inflammation, and wound healing. AIMP1 is secreted from the pancreas upon glucose starvation, and it also plays a glucagon-like role in glucose homeostasis. Although AIMP1 was identified as a component of the macromolecular aminoacyl tRNA synthetase complex involved in the cellular translation process, it was also found to be secreted as a cytokine having complex physiological functions. Among these, AIMP1's angiostatic and immune stimulating activities suggest its potential use as a novel antitumor therapeutic protein. AIMP1 may exert its antitumor activity by inducing tumor-suppressing cytokines. Thus, AIMP1 may be useful as a novel anti-tumor agent.
References	Lee YS, et al. (2006) Antitumor activity of the novel human cytokine AIMP1 in an in vivo tumor model. Mol Cells. 21(2): 213-7. Park SG, et al. (2006) Hormonal activity of AIMP1/p43 for glucose homeostasis. Proc Natl Acad Sci U S A. 103(40): 14913-8. Kim E, et al. (2008) AIMP1/p43 protein induces the maturation of bone marrow-derived dendritic cells with T helper type 1-polarizing ability. J Immunol. 180(5): 2894-902. Lee YS, et al. (2008) AIMP1/p43 downregulates TGF-beta signaling via stabilization of smurf2. Biochem Biophys Res Commun. 371(3): 395-400. Han JM, et al. (2010) Antitumor activity and pharmacokinetic properties of ARS-interacting multi-functional protein 1 (AIMP1/p43). Cancer Lett. 287(2): 157-64.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6754324
NCBI GeneID	16171
NCBI Accession #	NP_034682.1
NCBI GenBank Nucleotide #	NM_010552.3
UniProt Accession #	Q62386; Q60971
Molecular Weight	17,490 Da
NCBI Official Full Name	interleukin-17A
NCBI Official Synonym Full Names	interleukin 17A
NCBI Official Symbol	IL17a
NCBI Official Synonym Symbols	IL17; Ctl8; IL-17; Ctl8; IL-17A
NCBI Protein Information	interleukin-17A; cytotoxic T-lymphocyte-associated antigen 8
UniProt Protein Name	Interleukin-17A
UniProt Gene Name	IL17a
UniProt Synonym Gene Names	Ctl8; IL17; IL-17; IL-17A; CTLA-8
UniProt Entry Name	IL17_MOUSE

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/emap-ii-aimp1-antibody-immunoprecipitation-western-blot-elisa/257214>