

ARG56295 anti-EMAP II antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes EMAP II
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	EMAP II
Species	Human
Immunogen	Recombinant protein of Human EMAP II
Conjugation	Un-conjugated
Alternate Names	Endothelial monocyte-activating polypeptide II; Multisynthase complex auxiliary component p43; Small inducible cytokine subfamily E member 1; EMAPII; EMAP-2; EMAP-II; SCYE1; EMAP2; p43; Aminoacyl tRNA synthase complex-interacting multifunctional protein 1; HLD3

Application Instructions

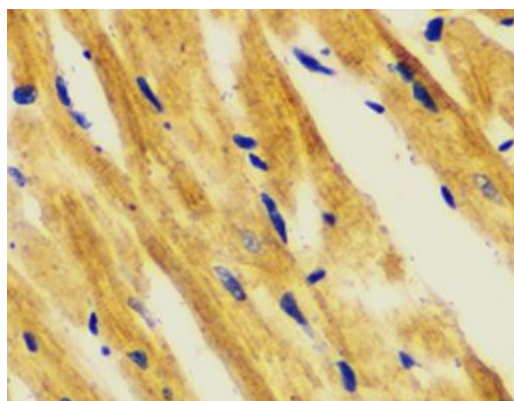
Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

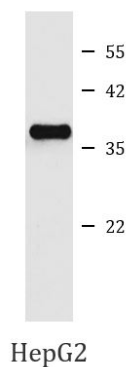
Database links	GeneID: 9255 Human Swiss-port # Q12904 Human
Gene Symbol	AIMP1
Gene Full Name	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1
Background	<p>The protein encoded by this gene is a cytokine that is specifically induced by apoptosis, and it is involved in the control 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]</p>
Function	<p>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 KDELR1-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. [UniProt]</p>
Calculated Mw	34 kDa
PTM	Cleaved by caspase-7 in response to apoptosis to produce EMAP-II.

Images



ARG56295 anti-EMAP II antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat heart stained with ARG56295 anti-EMAP II antibody at 1:100 dilution.



ARG56295 anti-EMAP II antibody WB image

Western blot: HepG2 cell lysate stained with ARG56295 anti-EMAP II antibody.