

# EMAP II Polyclonal Antibody

Catalog # AP73826

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q12904</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	34353

## Additional Information

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<b>Gene ID</b>	9255
<b>Other Names</b>	AIMP1; EMAP2; SCYE1; Aminoacyl tRNA synthase complex-interacting multifunctional protein 1; Multisynthase complex auxiliary component p43
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	AIMP1
<b>Synonyms</b>	EMAP2, SCYE1
<b>Function</b>	Non-catalytic component of the multisynthase complex. Stimulates the catalytic activity of cytoplasmic arginyl-tRNA synthase (PubMed: <a href="#">10358004</a> ). Binds tRNA. Possesses inflammatory cytokine activity (PubMed: <a href="#">11306575</a> ). 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: <a href="#">16472771</a> ). 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: <a href="#">12237313</a> ). Induces maturation of dendritic cells and monocyte cell adhesion (PubMed: <a href="#">11818442</a> ). Modulates endothelial cell responses by degrading HIF-1A through interaction with PSMA7 (PubMed: <a href="#">19362550</a> ).

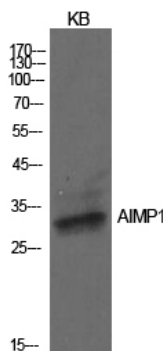
## Cellular Location

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}

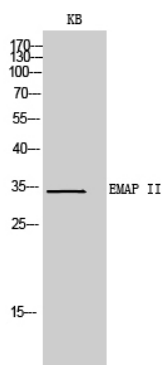
## Background

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](#)).

## Images



Western Blot analysis of KB cells using EMAP II Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Western Blot analysis of KB cells using EMAP II Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.