10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-AIMP1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1981

Product Information

Application	WB
Primary Accession	Q12904
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB6900
Calculated MW	34353
Gene Name	AIMP1
Aliases	AIMP1; Aminoacyl TRNA Synthetase Complex Interacting Multifunctional Protein 1; EMAPII; 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

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

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}

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