

Anti-AIMP1 / EMAP II Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17362**Specification**

Anti-AIMP1 / EMAP II Antibody - Product Information

Application	WB, IHC-P, IF
Primary Accession	Q12904
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	34353
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200

Anti-AIMP1 / EMAP II Antibody - Additional Information**Gene ID** 9255

Alias Symbol	AIMP1
Other Names	
AIMP1, EMAP II, EMAPII, EMAP-2, HLD3, p43, EMAP2, SCYE1	

Target/Specificity

Human AIMP1 / EMAP II / p43

Reconstitution & Storage

PBS, pH 7.3, 0.02% sodium azide, 50% glycerol. Long term: -80°C; Short term: -20°C. Avoid freeze-thaw cycles.

Precautions

Anti-AIMP1 / EMAP II Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-AIMP1 / EMAP II Antibody - 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:<<http://www.uniprot.org/citations/10358004>>10358004). Binds tRNA. Possesses inflammatory cytokine activity (PubMed:<<http://www.uniprot.org/citations/11306575>>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}

Anti-AIMP1 / EMAP II Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-AIMP1 / EMAP II Antibody - Images