

Goat Anti-AIMP1 / SCYE1 Antibody (aa137-149) (internal region), Biotinylated
Catalog # AF4293a

Specification

Goat Anti-AIMP1 / SCYE1 Antibody (aa137-149) (internal region), Biotinylated - Product Information

| | |
|-------------------|---|
| Application | WB |
| Primary Accession | Q12904 |
| Other Accession | NP_004748.2 , NP_001135888.1 , 9255 |
| Reactivity | Human |
| Predicted | Human, Pig, Dog |
| Host | Goat |
| Isotype | IgG |
| Calculated MW | 34353 |

Goat Anti-AIMP1 / SCYE1 Antibody (aa137-149) (internal region), Biotinylated - 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

Immunogen

This antibody is expected to recognize both reported isoforms (NP_004748.2; NP_001135888.1). Reported variants represent identical protein: NP_004748.2, NP_001135887.1

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-AIMP1 / SCYE1 Antibody (aa137-149) (internal region), Biotinylated is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-AIMP1 / SCYE1 Antibody (aa137-149) (internal region), Biotinylated - 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}

Goat Anti-AIMP1 / SCYE1 Antibody (aa137-149) (internal region), Biotinylated - 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](#)

Goat Anti-AIMP1 / SCYE1 Antibody (aa137-149) (internal region), Biotinylated - Images





Biotinylated AF4293a (0.1 $\mu\text{g}/\text{ml}$) staining of Human Lymph Node lysate (35 μg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.