

Mouse Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 ELISA Kit | Aimp1 elisa kit

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CATALOG # AAA100474	REACTIVITY Mouse
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PRODUCT SYNONYMS

Aminoacyl tRNA synthase complex-interacting multifunctional protein 1; Mouse Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 ELISA Kit; Aimp1/AIMP1/SCYE1/EMAP-II/aminoacyl tRNA synthetase complex-interacting multifunctional protein 1/EMAP-2/EMAPII member 1 (endothelialmonocyte-activating)/endothelial-monocyte activating polypeptide II/Multisynthase complex auxiliary component p43/multisynthetase complex auxiliary component p43; Aimp1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Aimp1. No significant cross-reactivity or interference between Aimp1 and analogues was observed.
Sequence Length	336
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Aimp1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Aimp1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve									
Results of a typical standard run of a Aimp1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A/not applicable)									
X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.161	0.38	0.49	0.664	1.211	1.817	2.198	2.533

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Aimp1 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Aimp1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- Aimp1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Aimp1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Aimp1 can be calculated.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	215490011
NCBI GeneID	9255
NCBI Accession #	NP_001135888.1
NCBI GenBank Nucleotide #	NM_001142416.1
Molecular Weight	37,039 Da
NCBI Official Full Name	aminoacyl tRNA synthase complex-interacting multifunctional protein 1 isoform b
NCBI Official Synonym Full Names	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1
NCBI Official Symbol	AIMP1
NCBI Official Synonym Symbols	p43; HLD3; EMAP2; SCYE1; EMAPII
NCBI Protein Information	aminoacyl tRNA synthase complex-interacting multifunctional protein 1
UniProt Protein Name	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1
UniProt Gene Name	AIMP1
UniProt Synonym Gene Names	EMAP2; SCYE1; EMAP-2; EMAP-II
UniProt Entry Name	AIMP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/aimp1-mouse-elisa-kits/aminoacyl-trna-synthase-complex-interacting-multifunctional-protein-1/100474>