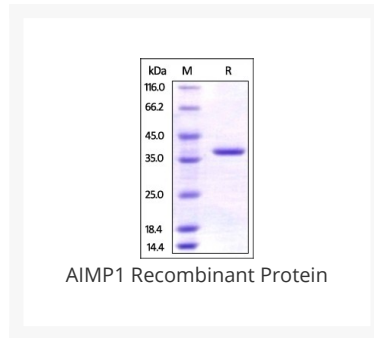




AIMP1 Recombinant Protein

Cat. No.: 96-820



Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Ala 2 - Lys 312
FUSION TAG:	His Tag
TESTED APPLICATIONS:	WB
APPLICATIONS:	This recombinant protein can be used for WB. For research use only.
PREDICTED MOLECULAR WEIGHT:	35.2 kDa

Ψ Properties

PURITY:	>95% as determined by SDS-PAGE. Endotoxin level is less than 1.0 EU per ug by the LAL method.
PHYSICAL STATE:	Lyophilized
BUFFER:	PBS, pH7.4

STORAGE CONDITIONS:	Lyophilized Protein should be stored at -20° C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20° C or -70° C. Avoid repeated freeze-thaw cycles.
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Additional Info

OFFICIAL SYMBOL:	AIMP1
ALTERNATE NAMES:	AIMP1,EMAP2,EMAPII,HLD3,SCYE1,p43,EMAP-2,EMAP-II,AIMP-1
ACCESSION NO.:	AAH14051
GENE ID:	9255

Background and References

BACKGROUND:	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 (AIMP1) is also known as multisynthase complex auxiliary component p43 and endothelial monocyte-activating polypeptide II (EMAP-II). AIMP1 is a cytokine that may be induced by apoptosis and is also released from professional antigen-presenting cells such as dendritic cells. The release of AIMP1 renders the tumor-associated vasculature sensitive to tumor necrosis factor. Furthermore, AIMP1 binds tRNA and stimulates the catalytic activity of cytoplasmic arginyl-tRNA synthase. This protein possesses inflammatory cytokine activity. Also, AIMP1 negatively regulates TGF-beta signaling through stabilization of SMURF2 by binding to SMURF2 and inhibiting its SMAD7-mediated degradation.
REFERENCES:	1) Barnett G., et al., 2000, Cancer Res. 60:2850-2857.
	2) Park S.G., et al., 1999, J. Biol. Chem. 274:16673-16676.
	3) Tandle A.T., et al., 2009, Exp. Cell Res. 315:1850-1859.

ANTIBODIES FOR RESEARCH USE ONLY.

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