

Product information



AIMP1 (IB-01-0019)

Catalog No. : IB-01-0019

Product Name : Aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 pAb

Synonym : EMAP-2, EMAP II , p43, SCYE1

Lot No. : AA1P-0901

Description : Anti-AIMP1 rabbit serum containing 0.05% sodium azide for preservative

Type : Polyclonal

Host : Rabbit

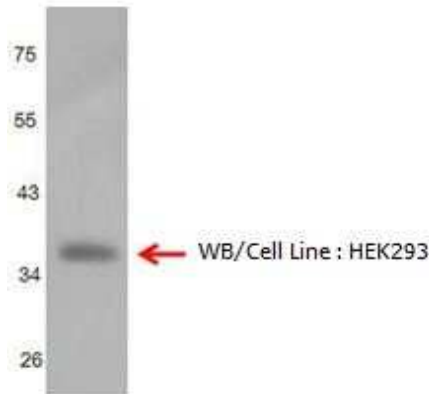
Immunogen : Native full length native recombinant human AIMP1

Specificity : This antibody reacts specifically with 38kDa p43(AIMP1) protein.

Species cross reactivity : Human, mouse. other species are not tested.

Applications :

IF, WB



Recommended Dilutions :

- 1) 1/5000 for western blot
- 2) Final dilution fold should be determined by end user.

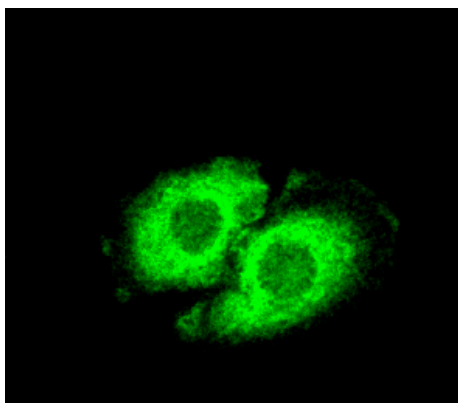
Storage : Store at 4 °C or -20 °C

Quantity : 100 µl

Background : AIMP1, previously known as p43, is an auxiliary component of ARS multi complex and a precursor of cytokine endothelial-monocyte activating polypeptide II (EMAPII). AIMP1 is known as a cytokine working in the control of angiogenesis, inflammation and wound healing. AIMP1 also has glucagon-like hormonal activity.

Reference :

1. Identification of CD23 as a functional receptor for the proinflammatory cytokine AIMP1/p43. Hyuk-Sang Kwon et al., *Journal of Cell Science*, Vol.125, 4620–4629, 2012
2. AIMP1 deficiency enhances airway hyperreactivity in mice via increased TH2 immune responses. Hye-Jin Hong et al., *Clinical Immunology*, Vol.143, 256–265,



IF / Cell Line – HeLa

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax.: (763) 780-2988

Email: info@ibl-america.com

Web: www.ibl-america.com

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3. Enhancement of Toll-like receptor 2-mediated immune responses by AIMP1, a novel cytokine, in mouse dendritic cells. Eugene Kim et al., *Immunology*, Vol.134, 73–81, 2011

4. Toll-like receptor 4-mediated c-Jun N-terminal kinase activation induces gp96 cell surface expression via AIMP1 phosphorylation. Gyuyoup Kim et al., *Biochemical and Biophysical Research Communications*, Vol. 397, 100–105, 2010

5. Antitumor activity and pharmacokinetic properties of ARS-interacting multi-functional protein 1 (AIMP1/p43). Jung Min Han et al., *Cancer Letters*, Vol.287, 157–164, 2010

6. Aminoacyl-tRNA synthetase-interacting multifunctional protein 1/p43 controls endoplasmic reticulum retention of heat shock protein gp96;Its pathological implications in lupus-like autoimmune disease. Jungmin Han et al., *American Journal of Pathology*, Vol.170, 2042-2054, 2007

7. The novel cytokine p43 induces IL-12 production in macrophages via NF- κ B activation, leading to enhanced IFN-gamma production in CD4+. Eugene Kim et al., *J Immunol*, Vol.176, 256-264, 2006

8. Hormonal activity of AIMP1 p43 for glucose homeostasis. Sanggyu Park et al., *PNAS*, Vol.103, 14913-14918, 2006

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