

Anti-EMAP-II/AIMP1 Antibody (6N985)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6N985
Purification:	Protein A

Applications

Verified Activity:	Immunochemical staining of human SCYE1 in human brain with mouse monoclonal antibody (1:30, formalin-fixed paraffin embedded sections).
Application:	IHC-P
Recommended	IHC-P: 1:20-1:80

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human AIMP1 / EMAP II Protein (TMPY-01461)
Antigen Species:	Human
Synonyms:	EMAP-2;SCYE1;p43;EMAPII;EMAP2;HLD3

Research Background

Aminoacyl tRNA synthase complex-interacting multifunctional protein 1, also known as Multisynthase complex auxiliary component p43, Endothelial monocyte-activating polypeptide II, AIMP1, EMAP2 and SCYE1, is a nucleus protein which contains one tRNA-binding domain. AIMP1 (also known as p43) is a factor associated with a macromolecular aminoacyl-tRNA synthetase (ARS) complex but also plays diverse regulatory roles in various physiological processes. AIMP1 negatively regulates TGF-beta signaling via stabilization of Smurf2. It suggests the novel activity of AIMP1 as a component of negative feedback loop of TGF-beta signaling. Recently, it been demonstrated that AIMP1 is also secreted and acts as a novel pleiotropic cytokine. AIMP1 protein induces the maturation and activation of DCs, which skew the immune response toward a Th1 response. AIMP1 is known as a cytokine working in the control of angiogenesis, inflammation, and wound healing. AIMP1 is secreted from the pancreas upon glucose starvation, and it also plays a glucagon-like role in glucose homeostasis. Although AIMP1 was identified as a component of the macromolecular aminoacyl tRNA synthetase complex involved in the cellular translation process, it was also found to be secreted as a cytokine having complex physiological functions. Among these, AIMP1's angiostatic and immune stimulating activities suggest its potential use as a novel antitumor therapeutic protein. AIMP1 may exert its antitumor activity by inducing tumor-suppressing cytokines. Thus, AIMP1 may be useful as a novel anti-tumor agent.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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