



# EMAP II Monoclonal Antibody

<b>Catalog No</b>	BYmab-16057
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB
<b>Gene Name</b>	AIMP1
<b>Protein Name</b>	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from the Internal region of human AIMP1. AA range:91-140
<b>Specificity</b>	EMAP II Monoclonal Antibody detects endogenous levels of EMAP II protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	AIMP1; EMAP2; SCYE1; Aminoacyl tRNA synthase complex-interacting multifunctional protein 1; Multisynthase complex auxiliary component p43
<b>Observed Band</b>	34kD
<b>Cell Pathway</b>	Nucleus . Cytoplasm, cytosol . Secreted . Endoplasmic reticulum . Golgi apparatus . 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. .
<b>Tissue Specificity</b>	Trachea,
<b>Function</b>	angiogenesis, blood vessel development, regulation of endothelial cell proliferation, negative regulation of endothelial cell proliferation, vasculature development, monosaccharide metabolic process, glucose metabolic process, tRNA metabolic process, translation, tRNA aminoacylation for protein translation, apoptosis, cell motion, chemotaxis,defense response, inflammatory response, cell adhesion, cell-cell signaling, behavior, locomotory behavior, cell death,negative regulation of cell proliferation, response to wounding, programmed

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cell death, death, cell migration, hexose metabolic process, biological adhesion, ncRNA metabolic process, regulation of cell proliferation, taxis, amino acid activation, tRNA aminoacylation, blood vessel morphogenesis, cell motility, leukocyte migration, localization of cell,

## Background

The protein encoded by this gene is a cytokine that is specifically induced by apoptosis, and it is involved in the control of angiogenesis, inflammation, and wound healing. The release of this cytokine renders the tumor-associated vasculature sensitive to tumor necrosis factor. The precursor protein is identical to the p43 subunit, which is associated with the multi-tRNA synthetase complex, and it modulates aminoacylation activity of tRNA synthetase in normal cells. This protein is also involved in the stimulation of inflammatory responses after proteolytic cleavage in tumor cells. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene has been identified on chromosome 20. [provided by RefSeq, Dec 2008],

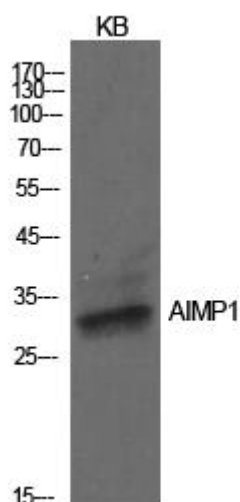
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using EMAP II Monoclonal Antibody